SONY

TRINITRON® COLOR VIDEO MONITOR

BVM-D9H1J/D9H1U/D9H1E/D9H1A
BVM-D9H5J/D9H5U/D9H5E/D9H5A
BVM-D14H1J/D14H1U/D14H1E/D14H1A
BVM-D14H5J/D14H5U/D14H5E/D14H5A

HR Trinitron
Multiformat

OPERATION MANUAL Japanese/English
1st Edition
Serial No. 2000001 and Higher

Section 1
Operating Instructions

This section is extracted from operation manual.

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

AVERTISSEMENT

Afin d'éviter tout risque d'incendie ou d'électrocution, ne pas exposer cet appareil à la pluie ou à l'humidité.

Afin d'écarter tout risque d'électrocution, garder le coffret fermé. Ne confier l'entretien de l'appareil qu'à un personnel qualifié.

WARNUNG

Um Feuergefahr und die Gefahr eines elektrischen Schlages zu vermeiden, darf das Gerät weder Regen noch Feuchtigkeit ausgesetzt werden.

Um einen elektrischen Schlag zu vermeiden, darf das Gehäuse nicht geöffnet werden. Überlassen Sie Wartungsarbeiten stets nur einem Fachmann.

ADVERTENCIA

Para evitar incendios o el riesgo de electrocución, no exponga la unidad a la lluvia ni a la humedad.

Para evitar descargas eléctricas, no abra la unidad. En caso de avería, solicite los servicios de personal cualificado.

ATTENZIONE

Per evitare incendi o cortocircuiti, l'apparecchio non deve essere esposto alla pioggia o all'umidità.

Per evitare scosse elettriche, non aprite l'apparecchio. Per le riparazioni rivolgetevi solo a personale qualificato.

CAUTION:
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

ATTENTION
Il y a un risque d'explosion si la pile est mal insérée. Remplacer la pile uniquement par une pile de même type ou de type équivalent recommandé par le fabricant. Jeter les piles usées conformément aux instructions du fabricant.

VORSICHT:
Es besteht Explosionsgefahr, wenn die Batterie inkorrekt eingelegt wird.
Es darf nur eine identische oder eine vom Hersteller empfohlene Batterie des gleichen Typs eingesetzt werden. Entladene Batterien sind nach den Anweisungen des Herstellers zu entsorgen.

PRECAUCION
Peligro de explosión en caso de haberse instalado incorrectamente la betería.
Cambie sólo por una del mismo tipo o especificaciones equivalentes, de entre las recomendadas por el fabricante. Las baterías viejas se deben eliminar siguiendo las instrucciones del fabricante.

ATTENZIONE:
Pericolo di esplosione se la pila viene sostituita scorrettamente.
Sostituirla solo con un'altra uguale o di un tipo equivalente consigliato dal fabbricante. Gettare via le pile usate secondo le istruzioni del fabbricante.

Note
The socket-outlet should be installed near the equipment and be easily accessible.

Remarque
La prise doit être près de l'appareil et facile d'accès.

Hinweis
Zur Trennung vom Netz ist der Netzstecker aus der Steckdose zu ziehen, welche sich in der Nähe des Gerätes befinden muß und leicht zugänglich sein soll.

Nota
La toma mural debe estar instalada cerca del equipo y debe accederse a ésta con facilidad.

Nota
La presa di corrente deve essere situata vicino all'apparecchio e deve essere facilmente accessibile.

For customers in the USA
(BVM-D9H1U/D9H5U, BVM-D14H1U/D14H5U)
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

Für Kunden in Deutschland
Entsorgungshinweis: Bitte werfen Sie nur entladene Batterien in die Sammelboxen beim Handel oder den Kommunen. Entladen sind Batterien in der Regel dann, wenn das Gerät abschaltet und signalisiert "Batterie leer" oder nach längerer Gebrauchsdauer der Batterien "nicht mehr einwandfrei funktioniert". Um sicherzugehen, kleben Sie die Batteriepole z.B. mit einem Klebestreifen ab oder geben Sie die Batterien einzeln in einen Plastikbeutel.

Voor de klanten in Nederland

Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

- Dit apparaat bevat een Li-ion batterij voor memory back-up.
- De batterij voor memory back-up is vastgesoldeerd op de MA printplaat BT1.
- Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.
- Gooi de batterij niet weg, maar lever hem in als KCA.

För kunderna i Sverige
Apparaten ma kun tilkoples jordet stikkontakt

For kunder i Norge
Apparatet må kun tilkoples jordet stikkontakt

For the customers in Europe
(BVM-D9H1E/D9H1A/D9H5E/D9H5A, BVM-D14H1E/D14H1A/D14H5E/D14H5A)
This product with the CE marking complies with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.
Compliance with these directives implies conformity to the following European standards:
- EN60950: Product Safety
- EN55103-1: Electromagnetic Interference (Emission)
- EN55103-2: Electromagnetic Susceptibility (Immunity)

This product is intended for use in the following Electromagnetic Environment(s):
E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors) and E4 (controlled EMC environment, ex. TV studio).

Pour les clients européens
(BVM-D9H1E/D9H1A/D9H5E/D9H5A, BVM-D14H1E/D14H1A/D14H5E/D14H5A)
Ce produit portant la marque CE est conforme à la fois à la Directive sur la compatibilité électromagnétique (EMC) (89/336/CEE) et à la Directive sur les basses tensions (73/23/CEE) émises par la Commission de la Communauté européenne.
La conformité à ces directives implique la conformité aux normes européennes suivantes:
- EN60950: Sécurité des produits
- EN55103-1: Interférences électromagnétiques (émission)
- EN55103-2: Sensibilité électromagnétique (immunité)

Ce produit est prévu pour être utilisé dans les environnements électromagnétiques suivants:
E1 (résidentiel), E2 (commercial et industrie légère), E3 (urbain extérieur) et E4 (environnement EMC contrôlé ex. studio de télévision).

Für Kunden in Europa
(BVM-D9H1E/D9H1A/D9H5E/D9H5A, BVM-D14H1E/D14H1A/D14H5E/D14H5A)
Dieses Produkt besitzt die CE-Kennzeichnung und erfüllt sowohl die EMV-Direktive (89/336/EEC) als auch die Direktive Niederspannung (73/23/EEC) der EG-Kommission.
Die Erfüllung dieser Direktiven bedeutet Konformität für die folgenden Europäischen Normen:
- EN60950: Produktsicherheit
- EN55103-1: Elektromagnetische Interferenz (Emission)
- EN55103-2: Elektromagnetische Empfindlichkeit (Immunität)

Dieses Produkt ist für den Einsatz unter folgenden elektromagnetischen Bedingungen ausgelegt:
E1 (Wohnbereich), E2 (kommerzieller und in beschränktem Maße industrieller Bereich), E3 (Stadtbereich im Freien) und E4 (kontrollierter EMV-Bereich, z.B. Fernsehstudio)

ATTENTION - When the product is installed in a rack:

a) Elevated operating ambient temperature
If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacture's maximum rated ambient temperature (Tmra: 0°C to 35°C (32°F to 95°F)).

b) Reduced air flow
Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

c) Mechanical loading
Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

d) Circuit overloading
Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on overcurrent protection and supply wiring.
Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

e) Reliable earthing
Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

f) Gap keeping
Upper and lower gap of rack-mounted equipment should be kept at least 44 mm (1 ¾ inches).

For the customers in the United Kingdom (BVM-D9H1E/D9H1A/D9H5E/D9H5A, BVM-D14H1E/D14H1A/D14H5E/D14H5A)

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly - if you are in any doubt consult a qualified electrician.

Achtung - bei Installation des Geräts in einem Gestell:

a) Erhöhte Umgebungstemperatur bei Betrieb
Wird das Gerät in einem geschlossenen Gestell oder einem Gestell mit mehreren anderen Geräten installiert, kann die Umgebungstemperatur um das Gestell höher sein als die normale Umgebungstemperatur im Raum. Achten Sie daher bitte besonders darauf, das Gerät in einer Umgebung zu installieren, in der die Temperatur nicht über die vom Hersteller angegebene Umgebungstemperatur von 0 bis 35 °C (32 °F bis 95 °F) ansteigt (Tmra).

b) Reduzierte Belüftung
Das Gerät muß so im Gestell installiert werden, daß eine Belüftung gewährleistet ist, die für den sicheren Betrieb des Geräts erforderlich ist.

c) Mechanische Belastung
Das Gerät muß so im Gestell installiert werden, daß nicht durch eine ungleichmäßige mechanische Belastung Unfallgefahr entsteht.

d) Überlastung der Stromkreise
Der Anschluß des Geräts an das Versorgungsnetz erfordert sorgfältige Planung. Bitte beachten Sie insbesondere die Auswirkungen, die eine Überlastung der Stromkreise im Hinblick auf den Überspannungsschutz und die physischen Komponenten des Versorgungsnetzes haben kann.
Beachten Sie in diesem Zusammenhang unbedingt die Angaben auf dem Typenschild am Gerät.

e) Zuverlässige Erdung
Geräte, die in einem Gestell installiert werden, benötigen eine zuverlässige Erdung. Achten Sie insbesondere auf Anschlüsse an das Versorgungsnetz, die nicht direkt an einen Abzweigstromkreis, sondern indirekt, zum Beispiel über Verlängerungskabel, erfolgen.

f) Erforderliche Abstände
Halten Sie zur Ober- und Unterseite eines in einem Gestell installierten Geräts einen Abstand von 44 mm (1 ¾ inches) ein.

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Precautions

On safety

- Operate the unit only with a power source as specified in “Specifications” section.
- The nameplate indicating operating voltage, power consumption, etc., is located at the rear.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Do not drop or place heavy objects on the power cord. If the power cord is damaged, turn off the power immediately. It is dangerous to use the unit with a damaged power cord.
- Unplug the unit from the wall outlet if it is not to be used for several days or more.
- Disconnect the power cord from the AC outlet by grasping the plug, not by pulling the cord.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Use the supplied AC adaptor for the BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A models only. It is dangerous to use the AC adaptor for models other than these.

On installation

- Allow adequate air circulation to prevent internal heat build-up.
  Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

On mounting the rack

When the monitor is mounted on the rack, the proximity of other equipment or a decrease in air circulation may cause heat to build up inside the monitor. Therefore, when mounting the monitor on the rack, ensure there is an adequate opening for ventilation or install a fan. The following operating conditions are needed:
Temperature: 0°C to 35°C (32°F to 95°F),
Optimum temperature: 20°C to 30°C (68°F to 86°F)

On the battery (BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A only)

The MAIN POWER switch is not supplied with the above models. Therefore, when the power is turned off with a battery installed, the monitor is set to standby mode and a small amount of power is consumed. When the monitor is not used for a long period, remove the battery.

On cleaning

To keep the unit looking brand-new, periodically clean it with a mild detergent solution. Never use strong solvents such as thinner or benzine, or abrasive cleansers since they will damage the cabinet. As a safety precaution, unplug the unit before cleaning it.

On repacking

Do not throw away the carton and packing materials. They make an ideal container which to transport the unit.
If you have any questions about this unit, contact your authorized Sony dealer.

On magnetism

- Do not place the unit near any objects or pieces of equipment which generate magnetism, such as magnets, speakers, electric clocks, toys using magnets, health appliances, etc. Magnetism will cause picture bounce, oscillations or picture discoloration.
- Also, the picture may become fuzzy or the colors may not reproduce correctly due to earth magnetism. This depends on direction that the unit is installed. This is not equipment failure. In such a case, simply degauss the unit.

On the CRT

- Dust accumulates on the CRT easily. Clean the CRT when necessary with a soft cloth.
  The surface of the CRT is easily scratched; therefore, do not rub or touch the surface of the CRT unnecessarily since this may result in a scratched picture tube.
- If you touch the surface of the CRT, you may feel a weak electrical shock. This is simply static electricity that is generated on the surface of the CRT. It will not affect the human body.

On using as the monitor for 4:3 signals

The 16:9 mask is installed at the factory. When the display is set to the 4:3 aspect ratio, the upper and lower portions of the display are masked and you cannot view the upper and lower portions of the picture. Therefore, when you want to display the picture in 4:3 aspect ratio, install the supplied 4:3 mask.

Overview

The BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A are 9 -inch Trinitoron®[1] Color Monitors. The BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A are 14-inch[2] Trinitoron® Color Monitors.

Features

Multiformat

The monitor supports the principal format (480I/480P/720P/1080I) for the digital broadcasts, NTSC and PAL color systems, and a wide variety of signals[3] whose horizontal frequency is between 15 kHz and 45 kHz.

High resolution picture tube

The HR Trinitron picture tube produces a clear, high resolution image.

Model	Aperture grille pitch	Resolution at the center of the picture
BVM-D9H1U/ D9H1E/D9H1A/ D9H5U/D9H5E/ D9H5A	0.25 mm	450 TV lines (4:3) 340 TV lines (16:9)
BVM-D14H1U/ D14H1E/D14H1A/ D14H5U/D14H5E/ D14H5A	0.25 mm	800 TV lines (4:3) 600 TV lines (16:9)

Separate control unit (BVM-D9H1U/D9H1E/D9H1A/D14H1U/D14H1E/D14H1A)

Using a separate control unit reduces the space needed for the equipment.
The monitor is controlled by a separate control unit, such as an optional BKM-10R/11R Monitor Control Unit or by daisy chain connections.

Controlling monitor groups

Up to 32 monitors can be controlled from one control unit by the RS-485 serial remote connections. You can control individual monitors or monitor groups simply by entering monitor address or group numbers. You can also execute the same operation on all connected monitors, or put all connected monitors into the same setup and adjustment state.

Auto chroma phase and white balance functions

The chroma and phase of the decoder are automatically adjusted with the auto chroma phase function and the color temperature is automatically adjusted with the auto white balance function by using the BKM-14L Auto Setup Probe, etc.

4:3 area marker

It is possible to check the 4:3 aspect area in the 16:9 picture by displaying the 4:3 marker.

Expandable input capability

You can obtain HD SDI signals, D1 SDI signals, NTSC/PAL signals or YP_BP_R/RGB signals by installing the optional input adaptors at the rear of the monitor. The input connector configuration can be easily modified and up to three adaptors can be installed. The BKM-129X Analog Component Input Adaptor is installed at SLOT 1 at the factory.

Stable color temperature

The beam current feedback circuit maintains a constant color temperature over long periods of time.

Blue-only mode convenient for monitoring noise

All three CRT cathodes can be driven with a blue signal, producing a monochrome display. This mode is convenient for chroma and phase adjustment, and for monitoring VTR noise.

Other features

- The monitor's various functions and operating conditions can be set with on-screen menus.
- Has both RS-485 serial remote and relay contact parallel remote control connectors.
- H delay and V delay functions for simultaneous checking of the horizontal and vertical synchronization signals. VITS (Vertical Interval Test Signal) checking is also possible.
- Auto and manual degaussing.
- The monitor may be mounted in an EIA-standard 19-inch rack, using an optional MB-520 (for 9-inch monitor) or BKM-30E14/31E14 (for 14-inch monitor) Rack Mount Kit.
- The appearance of the monitor can be changed to 16:9 or 4:3 display by the replacement of a mask.
- Operable by using a Sony lithium ion battery (BP-L60/L90A) or DC 12 V external power source. (BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A only)
- Built-in audio reproduce circuit and speaker. (BVM-D9H5U/D9H5E/D9H5A only)

Options

For external control

BKM-10R Monitor Control Unit

A controller for the BVM-D9H/D14H series video monitors, allowing you to control multiple monitors from one control unit.

BKM-11R Monitor Control Unit

A controller for the BVM-D9H/D14H and other BVM/HDM series video monitors, allowing you to control multiple monitors from one control unit.

BKM-14L Auto Setup Probe

A probe, allowing the automatic adjustment of this monitor's color temperature.

For installation

MB-520 Mounting Bracket

Mounting bracket to mount one or two BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A in a 19-inch EIA standard rack.

MB-519 Mounting Panel

Panel for the BVM-D9H1U/D9H1E/D9H1A to fill up the space created when mounting a video monitor to a rack with the MB-520 mounting bracket.

MB-509 Mounting Panel

Panel for the BVM-D9H5U/D9H5E/D9H5A to fill up the space created when mounting a video monitor to a rack with the MB-520 mounting bracket.

BKM-30E14 Rack Mount Kit

Rack mount kit for mounting the BVM-D14H5U/D14H5E/D14H5A in an EIA standard 19-inch rack.

BKM-31E14 Rack Mount Kit

Rack mount kit for mounting the BVM-D14H1U/D14H1E/D14H1A in an EIA standard 19-inch rack.

Others

VF-508 Monitor ENG Kit

Kit that includes a light intercepting hood which is mounted on the front of a monitor, and a connector protector which is mounted on the rear.

Input adaptors

The input connector panel is configured by sliding the optional input adaptor into the input option slot at the rear of the monitor. Up to three adaptors can be installed to the monitor.
The input signal type for each connector of the adaptor is set with the INPUT CONFIG menu, in accordance with the configuration of the connector panel.

Note

When installing the adaptor, be sure to perform the necessary input signal setup with the INPUT CONFIG menu. If the setup is not performed, the adaptors may not function correctly.

For information about the INPUT CONFIG menu, see "C Setting the Input Configuration — INPUT CONFIG Menu" on page 35(E).

1) Trinitron® is a registered trademark of Sony Corporation.
2) 9-inch and 14-inch refer to the CRT size of the monitor. For effective picture size, see "Specifications" on page 47(E).
3) For details on the signal format, see "Available Signal Format" on page 53(E).

Overview

BKM-120D SDI 4:2:2 Input Adaptor
Includes a decoder for serial digital component signals. D1 SDI input/output connectors for two serial digital channels and active loop-through output connectors.

BKM-127W NTSC/PAL Input Adaptor
Includes decoders for analog composite NTSC and PAL signals. Input/output connectors for two analog channels and one YC channel.

BKM-129X Analog Component Input Adaptor
Includes input/output connectors for one analog channel and EXT SYNC input/output connectors.

The BKM-129X is mounted to the monitor at the factory.

BKM-142HD HD SDI Input Adaptor
Includes a decoder for HD serial digital signals and input/output connectors for two serial digital signal channels and monitor output connector.

Notes

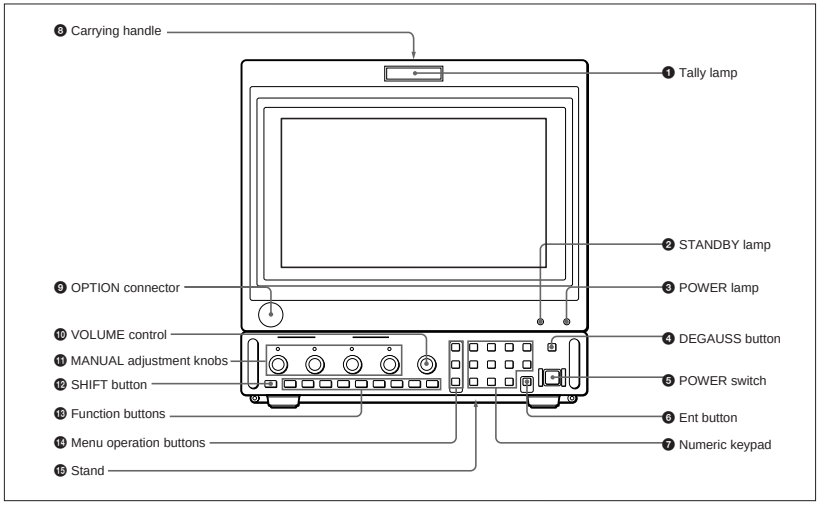
- The BKM-142HD uses two input option slots.
- The signal from MONITOR OUT connector does not satisfy the ON-LINE signal specifications.

Location and Function of Parts

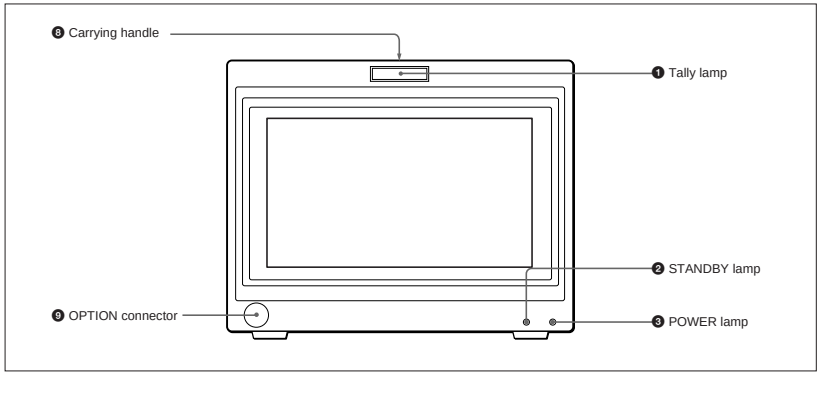
BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A Front Panel

For the BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A, see pages 16(E) to 20(E).

BVM-D9H1U/D9H1E/D9H1A



BVM-D9H5U/D9H5E/D9H5A



Location and Function of Parts

This manual explains the location and function of parts and controls of the BVM-D9H5U/D9H5E/D9H5A. The explanation also applies to the optional BKM-10R/11R Monitor Control Unit.

❶ Tally lamp
With factory settings, the tally lamp lights as follows when the pins of the PARALLEL REMOTE [1] connector on the rear panel are shorted:
– in red, when pins No.3 and No.9 are shorted.
– in green, when pins No.4 and No.9 are shorted.
– in amber, when pins No.3, No.4 and No.9 are shorted.

The tally lamp lights as follows when the pins of the PARALLEL REMOTE [2] connector on the rear panel are shorted:
– in red, when pins No.3 and No.5 are shorted.
– in green, when pins No.4 and No.5 are shorted.
– in amber, when pins No.3, No.4 and No.5 are shorted.

By changing the setting in the REMOTE menu, different pins on the remote connector can be used to control the tally lamp.

For information about the REMOTE menu, see "[D] Assigning the Remote Control Functions — REMOTE Menu" on page 37(E).

❷ STANDBY lamp
Lights when the monitor is in standby mode. The monitor will be in standby mode under the following conditions:
• The AC adaptor or battery is attached to the monitor when the STANDBY MODE menu of the SYSTEM CONFIG menu is set to ON.
• The monitor is changed from operation mode to standby mode by external control.

For information about the SYSTEM CONFIG menu, see "[E] Setting the Power-Up Conditions and Data about the Screen Display — SYSTEM CONFIG Menu" on page 39(E).

❸ POWER lamp
Lights when the monitor is put into operation mode from standby mode (see STANDBY lamp ❷) by pressing the POWER switch ❺.

Note
When the STANDBY lamp ❷ is blinking, the monitor cannot be put into operation mode (internal data initialization is taking place). Wait until the STANDBY lamp ❷ is steadily lit.

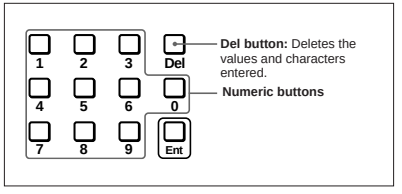
❹ DEGAUSS button
Press to degauss the CRT (every time the monitor is turned on, the CRT is degaussed automatically). To degauss again, wait for more than five minutes.

❺ POWER switch
Press to turn on/off the monitor. By setting with the ADDRESS menu, it is possible to turn on/off the power of the specified monitors only, or of all monitors at the same time.

For information about the ADDRESS menu, see "Selecting the Monitor to Control — ADDRESS Menu" on page 45(E).

❻ Ent button
Use to confirm the items, values and characters entered.

❼ Numeric keypad
Use to designate the channel number for the input signal to be monitored, or to enter the setting values with the menus.



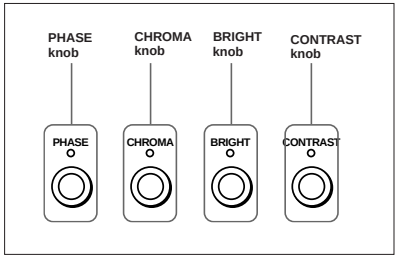
❽ Carrying handle
Pull out to use for carrying the monitor.

❾ OPTION connector
Used to connect the BKM-11R Monitor Control Unit or Auto Setup Probe (BKM-14L, etc.)

❿ VOLUME control
Adjusts the volume of the audio signals from the equipment connected to the AUDIO IN jacks at the rear of the monitor.

⓫ MANUAL adjustment knobs
Each press of one of these knobs turns the knob's green LED on or off. When the corresponding knob is on (lit), it is possible to manually adjust the contrast, brightness, chroma and phase by turning the corresponding knobs. The PHASE knob is also used to select the items or enter the setting values with the menus. It is possible to set the preset value for each adjusting item with the CONTROL PRESET ADJ menu.

For Information about the CONTROL PRESET ADJ menu, see "[A] Preset Adjustment of the Picture Level Control Knobs — CONTROL PRESET ADJ menu" on page 31(E).



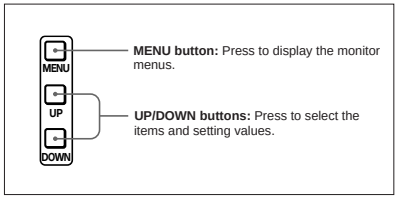
Note
The PHASE and CHROMA knobs may not be adjusted due to the signals. However, these knobs are used for selecting the items or entering the setting values with the menus.

⓬ SHIFT button
Press to select one of the two functions designated to the function buttons ⓭.
Each time the SHIFT button is pressed, the LED turns on (SHIFT ON: lits in umber) and off (SHIFT OFF.)
SHIFT OFF: The functions indicated above the function buttons can be used (the LED of the function button lits in green.)
SHIFT ON: The functions indicated below the function buttons can be used (the LED of the function button lits in amber.)

⓭ Function buttons
Change the operation conditions for the monitor. Each time the button is pressed, the LED turns on and turns off, and the operation conditions are changed. Each button has two functions. Select one of the two functions by pressing the SHIFT button ⓬. When the SHIFT button is set to ON, the LED lights in umber, and when the SHIFT button is set to OFF, the LED of each button lights in green.

For the functions of the function buttons in case of SHIFT OFF and SHIFT ON, see pages 10(E) and 11(E).

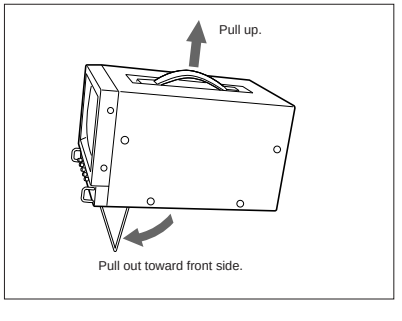
⓮ Menu operation buttons



For more information about menu operation, see "Basic Menu Operations" on page 25(E).

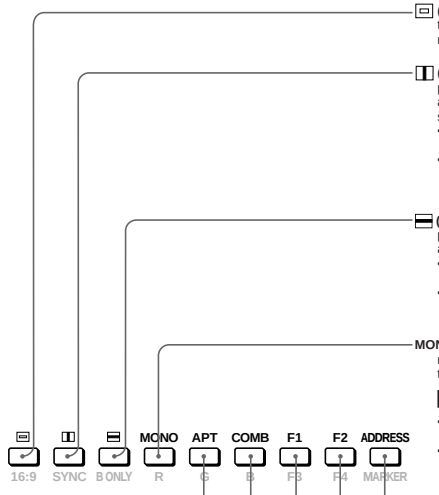
⓯ Stand
Pull out to use.

Using the Carrying Handle and Stand



Location and Function of Parts

Function buttons in SHIFT OFF mode (LEDs of function buttons in green)



(Underscan) button: When this button is pushed in (ON), the picture is underscanned by 3%, and four ends of the raster is displayed on the screen.

(H delay) button: When this button is pushed in (ON), the picture moves horizontally, and a horizontal sync signal appears approximately one quarter in the left edge of the screen.
- The brightness of the picture increases automatically, and it makes it easy to check the sync part.
- If it is pressed together with the button, a pulse cross picture is displayed.

(V delay) button: When this button is pushed in (ON), the picture moves vertically, and a vertical sync signal appears approximately in the center of the screen.
- The brightness of the picture increases automatically, and it makes it easy to check the sync part.
- If it is pressed together with button, a pulse cross picture is displayed.

MONO button: When this button is pushed in (ON), a monochrome picture is displayed. When the buttons is off, the monitor switches automatically color mode.

Notes
- The MONO button does not function with the RGB signal input.
- When the NTSC or PAL color signals are received and color burst signals are not input, the monitor does not switch to color mode.

ADDRESS button: When this button is pushed in (ON), the ADDRESS menu appears on the screen. By using the ADDRESS menu, operation conditions for multiple monitors are set.
For more information about the ADDRESS menu, see "Selecting the Monitor to Control — ADDRESS Menu" on page 45(E).

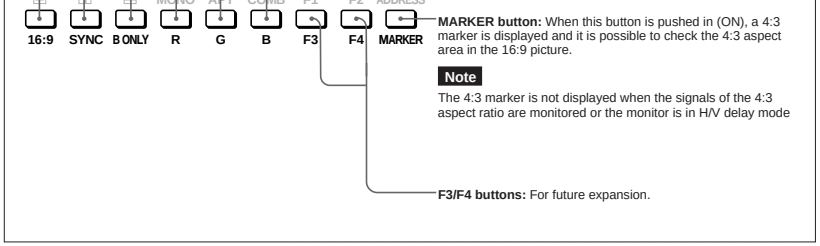
F2 button: When this button is pushed in (ON), you can access directly the MANUAL menu of the level 1 of the COLOR TEMP ADJ menu, if the short-cut function is assigned to this button.

F1 button: When this button is pushed in (ON), the characters disappear from the monitor on the MANUAL menu of the level 1 of the CONTROL PRESET ADJ menu, the MANUAL menu of the level 1 of the COLOR TEMP ADJ menu, and the ALIGNMENT menu.

COMB button: This button does not function with this monitor. However, when the BKM-127W NTSC/PAL Input Adaptor (optional) is installed and the NTSC or PAL color signals are received, the monitor can be used with the comb filter turned on.

APT (aperture) button: When this button is pushed in (ON), the frequency response can be modified. The degree of modification is set with the menu. (When RGB signals are input, the button does not function.)

Function buttons in SHIFT ON mode (LEDs of function buttons in amber)



16:9 button: When this button is pushed in (ON), the aspect ratio changes to 16:9, and when set to OFF, the aspect ratio changes to 4:3.
The aspect ratio is fixed to 16:9 when the signal other than 4:3 signal format is input. For details, see "Available Signal Format" on page 53(E).

SYNC button: When this button is pushed in (ON), the monitor synchronizes to the sync signal input to the SYNC connectors on the BKM-129X (EXT SYNC). When set to OFF, it synchronizes to the sync signal included in the signals being monitored (INT SYNC).

Notes
- When INT SYNC is selected, use a component including a sync signal on the Y signal, and use RGB signal including a sync signal on the G signal.
- When the BKM-129X is not installed to the monitor or serial digital signals are monitored, INT SYNC is automatically selected. You cannot select EXT SYNC.

B ONLY (blue only) button: When this button is pushed in (ON), red and green signals are cut, and only the blue signal is displayed as a monochrome picture. It makes it easy to adjust CHROMA and PHASE, and to check VTR noise.

R/G/B buttons: When these buttons are pushed in (ON), R(red), G(green), and B(blue) beams are cut respectively.

MARKER button: When this button is pushed in (ON), a 4:3 marker is displayed and it is possible to check the 4:3 aspect area in the 16:9 picture.

Note
The 4:3 marker is not displayed when the signals of the 4:3 aspect ratio are monitored or the monitor is in H/V delay mode

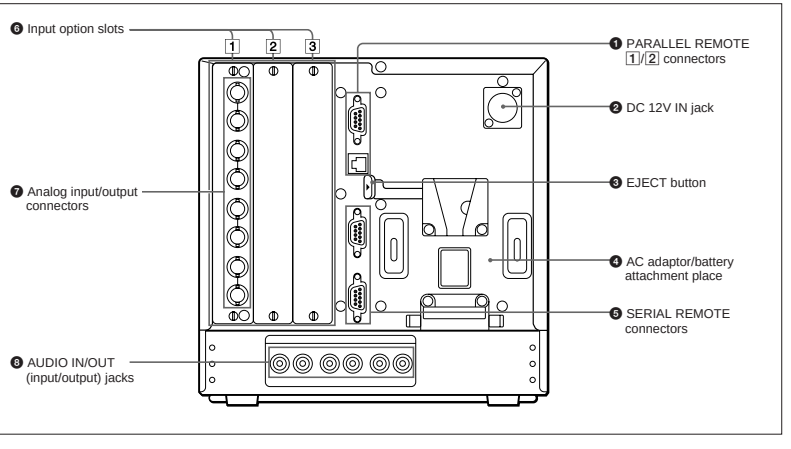
F3/F4 buttons: For future expansion.

Location and Function of Parts

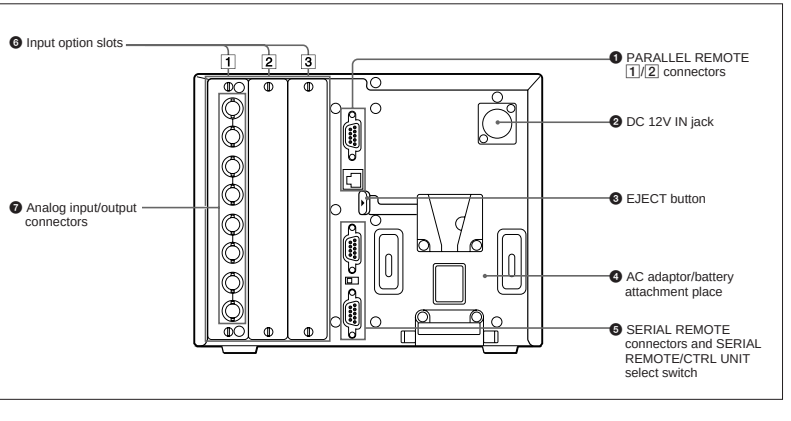
BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A Rear Panel

For the BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A, see pages 21(E) to 23(E).

BVM-D9H5U/D9H5E/D9H5A

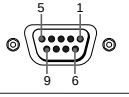

❻ Input option slots
1 2 3
❶ PARALLEL REMOTE 1/2 connectors
❷ DC 12V IN jack
❼ Analog input/output connectors
❸ EJECT button
❹ AC adaptor/battery attachment place
❺ SERIAL REMOTE connectors
❽ AUDIO IN/OUT (input/output) jacks

BVM-D9H1U/D9H1E/D9H1A


❻ Input option slots
1 2 3
❶ PARALLEL REMOTE 1/2 connectors
❷ DC 12V IN jack
❼ Analog input/output connectors
❸ EJECT button
❹ AC adaptor/battery attachment place
❺ SERIAL REMOTE connectors and SERIAL REMOTE/CTRL UNIT select switch

❶ PARALLEL REMOTE 1/2 connectors (1: female, D-sub 9-pin, 2: modular connector)
Form a parallel switch and controls the monitor externally. The pin assignment and factory setting function assigned to each pin are given below.

1: D-sub 9-pin



Pin number	Functions
1	Set input signal channel 1 (numeric keypad function)
2	Set input signal channel 2 (numeric keypad function)
3	Set red tally lamp on or off
4	Set green tally lamp on or off
5	Select sync signal (SYNC button function)
6	Set underscan on or off
7	Set a 16:9 aspect ratio on or off
8	Set the 4:3 area marker display on or off
9	GND

2: modular connector

Pin number	Functions
1	Set input signal channel 1 (numeric keypad function)
2	Set input signal channel 2 (numeric keypad function)
3	Set red tally lamp on or off
4	Set green tally lamp on or off
5	GND
6	Set underscan on or off

All pin function assignments can be changed with the REMOTE menu.

For information about the REMOTE menu, see " D Assigning the Remote Control Functions — REMOTE Menu" on page 37(E).

To switch each function between on and off or between enable and disable, change pin connections in the following way.

ON or enabled: Short each pin and pin 9 together **for D-sub 9-pin**.
Short each pin and pin 5 together **for modular connector**.

OFF or disabled: Leave each pin open.

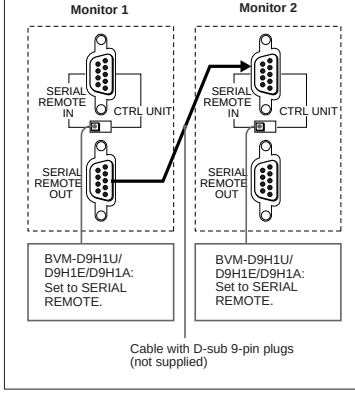
❷ DC 12V IN jack (XLR-type, 4-pin)
Connects the DC 12V external power source to use the monitor.

❸ EJECT button
While sliding this button, remove the AC adaptor or battery.

❹ AC adaptor/battery attachment place
Attach the AC adaptor or battery.

❺ SERIAL REMOTE connectors (female, D-sub 9-pin), and SERIAL REMOTE/CTRL UNIT select switch (BVM-D9H1U/D9H1E/D9H1A only)
These are RS-485 serial interface connectors, used for connecting two or more BVM-xxE/F/G, BVM-xxD and HDM-xxE series monitors. The IN and OUT connectors form a loop-through connection.
BVM-D9H1U/D9H1E/D9H1A only: The SERIAL REMOTE/CTRL UNIT select switch is set to SERIAL REMOTE at the factory.

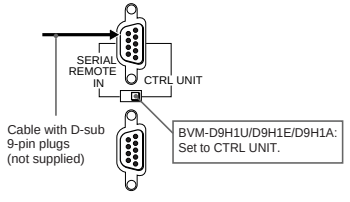
For connecting the monitor (used for daisy chain connections)
Connect two monitors using a cable with D-sub 9-pin plugs such as an RCC-5G (not supplied) as follows:



(continued)

For connecting the BKM-10R Monitor Control Unit

Connect the monitor and control unit using a cable with D-sub 9-pin plugs such as an RCC-5G (not supplied) as follows:



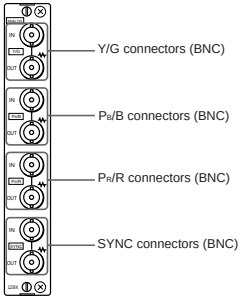
❻ Input option slots (three slots)

The monitor may be fitted with optional input adaptors up to three.
The BKM-129X is installed to the monitor at the factory.

Notes

- The BKM-142HD uses two input option slots.
- Each adaptor can also be installed into SLOT 1. Install any adaptor to SLOT 1.

❼ Analog input/output connectors (BKM-129X)



RGB signals or component signals (Y/P_B/P_R) can be fed in the IN connectors. The type of signal applied to each connector is set with the INPUT CONFIG menu. The OUT connectors are used for loop-through output of the input signal.

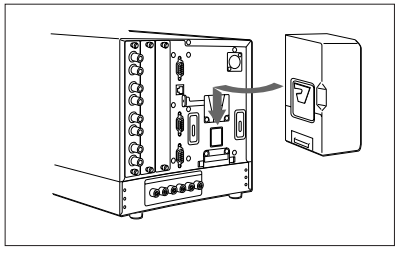
For information about the INPUT CONFIG menu, see " C *Setting the Input Configuration — INPUT CONFIG Menu" on page 35(E).*

❽ AUDIO IN/OUT (input/output) jacks (BVM-D9H5U/D9H5E/D9H5A only)

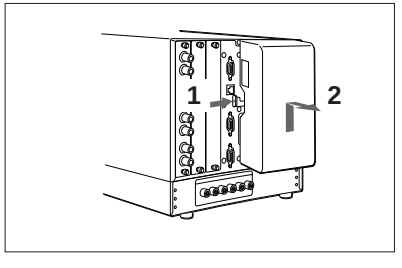
Connects to the audio output jacks of the VCR or microphone amplifier. The monitor is equipped with three input and output jacks. You can obtain the loop-through output from the OUT jacks.

Attaching the AC adaptor or battery

Attaching



Removing the AC adaptor or battery

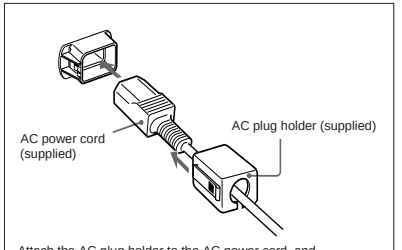


Note

Use the supplied AC adaptor for the BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A models only. It is dangerous to use the AC adaptor for models other than these.

Connecting the AC power cord

Attach the AC adaptor to the monitor, and then connect the supplied AC power cord.

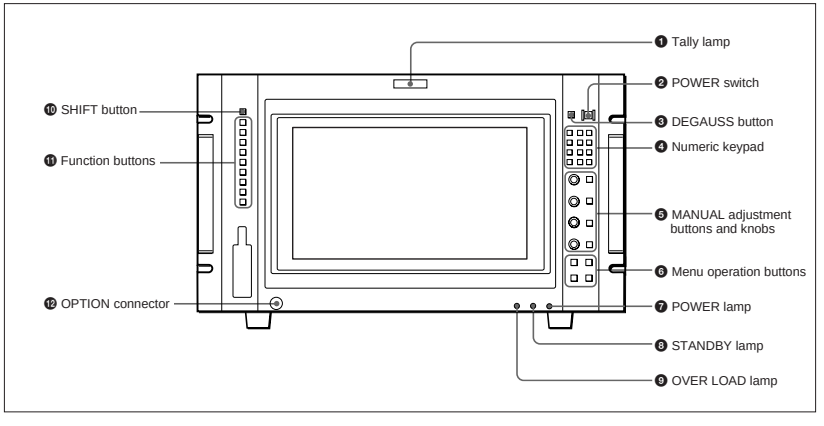


Attach the AC plug holder to the AC power cord, and connect it to the AC IN connector so that the cord does not come loose.

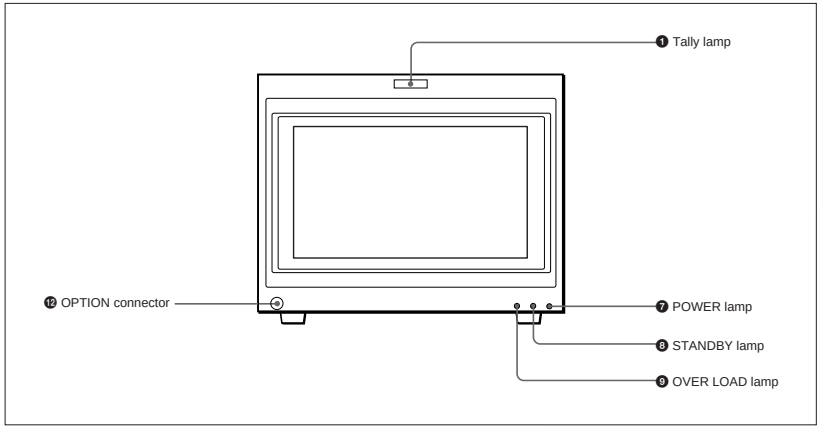
Location and Function of Parts

BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A Front Panel

BVM-D14H5U/D14H5E/D14H5A



BVM-D14H1U/D14H1E/D14H1A



This manual explains the location and function of parts and controls of the BVM-D14H5U/D14H5E/D14H5A. The explanation also applies to the optional BKM-10R/11R Monitor Control Unit.

❶ Tally lamp
With factory settings, the tally lamp lights as follows when the pins of the PARALLEL REMOTE 1 connector on the rear panel are shorted:
– in red, when pins No.3 and No.9 are shorted.
– in green, when pins No.4 and No.9 are shorted.
– in amber, when pins No.3, No.4 and No.9 are shorted.

The tally lamp lights as follows when the pins of the PARALLEL REMOTE 2 connector on the rear panel are shorted:
– in red, when pins No.3 and No.5 are shorted.
– in green, when pins No.4 and No.5 are shorted.
– in amber, when pins No.3, No.4 and No.5 are shorted.

By changing the setting in the REMOTE menu, different pins on the remote connector can be used to control the tally lamp.

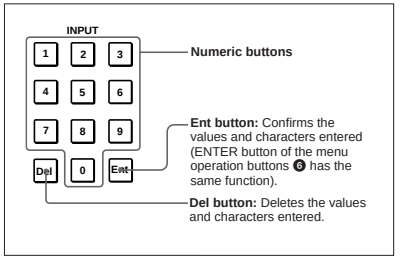
For information about the REMOTE menu, see "D Assigning the Remote Control Functions — REMOTE Menu" on page 37(E).

❷ POWER switch
Press to turn on/off the monitor. By setting with the ADDRESS menu, it is possible to turn on/off the power of the specified monitors only, or of all monitors at the same time.

For information about the ADDRESS menu, see "Selecting the Monitor to Control — ADDRESS Menu" on page 45(E).

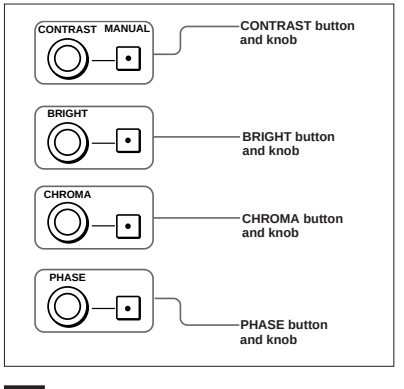
❸ DEGAUSS button
Press to degauss the CRT (every time the monitor is turned on, the CRT is degaussed automatically). To degauss again, wait for more than five minutes.

❹ Numeric keypad
Use to designate the channel number for the input signal to be monitored, or to enter the setting values with the menus.



❺ MANUAL adjustment buttons and knobs
Each press of one of these buttons turns the button's green LED on or off. When the corresponding button is on (lit), it is possible to manually adjust the contrast, brightness, chroma and phase by turning the corresponding knobs. The PHASE knob is also used to enter the setting values with the menus. It is possible to set the preset value for each adjusting item with the CONTROL PRESET ADJ menu.

For Information about the CONTROL PRESET ADJ menu, see " A Preset Adjustment of the Picture Level Control Knobs — CONTROL PRESET ADJ menu" on page 31(E).

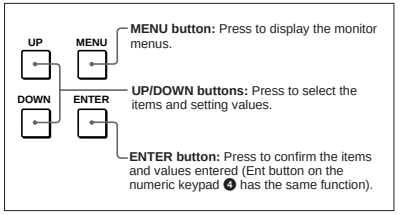


Note
The PHASE and CHROMA knobs may not be adjusted due to the signals. However, these knobs are used for selecting the items or entering the setting values with the menus.

(continued)

Location and Function of Parts

❻ Menu operation buttons


UP
MENU
DOWN
ENTER
MENU button: Press to display the monitor menus.
UP/DOWN buttons: Press to select the items and setting values.
ENTER button: Press to confirm the items and values entered (Ent button on the numeric keypad ❹ has the same function).

For more information about menu operation, see "Basic Menu Operations" on page 25(E).

❼ POWER lamp

Lights when the monitor is put into operation mode from standby mode (see STANDBY lamp ❽) by pressing the POWER switch ❷.

Note

When the STANDBY lamp ❽ is blinking, the monitor cannot be put into operation mode (internal data initialization is taking place). Wait until the STANDBY lamp ❽ is steadily lit.

❽ STANDBY lamp

Lights when the monitor is in standby mode. The monitor will be in standby mode under the following conditions:

- The MAIN POWER switch (on the rear panel) is turned on when the STANDBY MODE menu of the SYSTEM CONFIG menu is set to ON (the STANDBY lamp will blink for a few moments after the switch is turned on, then will light).
- The monitor is changed from operation mode to standby mode by external control.

For information about the SYSTEM CONFIG menu, see "E Setting the Power-Up Conditions and Data about the Screen Display — SYSTEM CONFIG Menu" on page 39(E).

❾ OVER LOAD lamp

Lights when some malfunction has occured.
When the OVER LOAD lamp is lit, consult your nearest Sony service facilities.

❿ SHIFT button

Press to select one of the two functions designated to the function buttons ⓫.
Each time the SHIFT button is pressed, the LED turns on (SHIFT ON: lits in umber) and off (SHIFT OFF.)

SHIFT OFF: The functions indicated above the function buttons can be used (the LED of the function button lits in green.)

SHIFT ON: The functions indicated below the function buttons can be used (the LED of the function button lits in amber.)

⓫ Function buttons

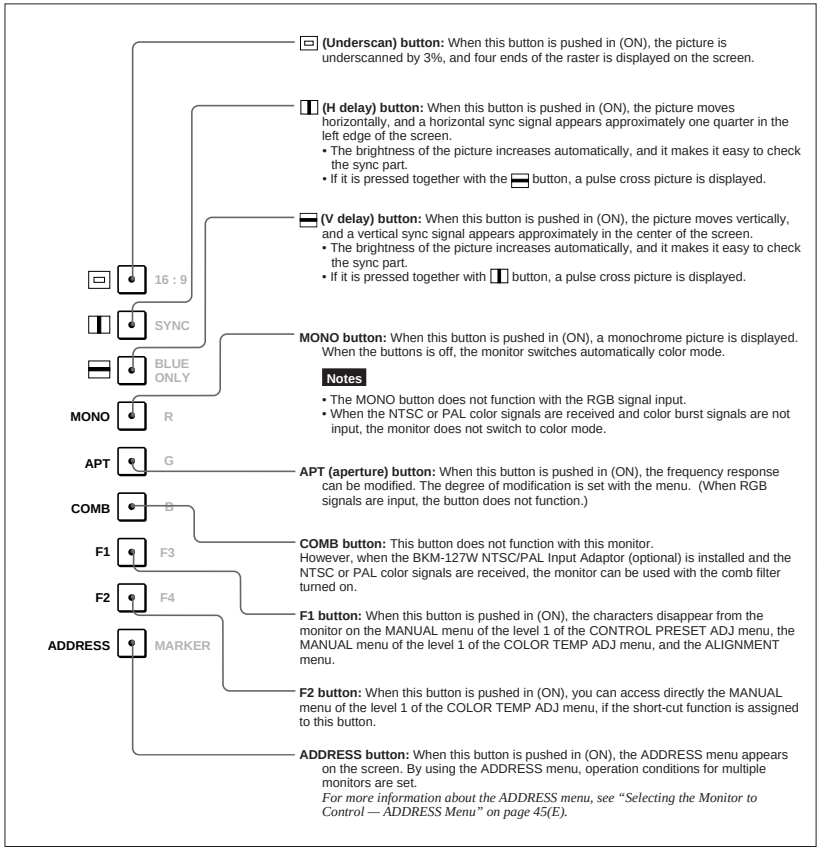
Change the operation conditions for the monitor.
Each time the button is pressed, the LED turns on and turns off, and the operation conditions are changed.
Each button has two functions. Select one of the two functions by pressing the SHIFT button ❿. When the SHIFT button is set to ON, the LED lights in umber, and when the SHIFT button is set to OFF, the LED of each button lights in green.

For the functions of the function buttons in case of SHIFT OFF and SHIFT ON, see pages 19(E) and 20(E).

⓬ OPTION connector

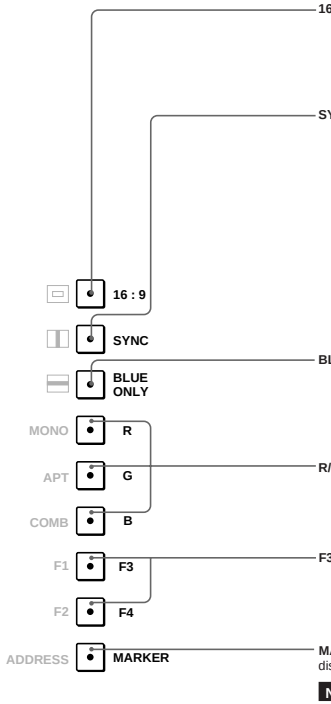
Used to connect the BKM-11R Monitor Control Unit or Auto Setup Probe (BKM-14L, etc.)

Function buttons in SHIFT OFF mode (LEDs of function buttons in green)


16 : 9
SYNC
BLUE ONLY
MONO
R
APT
G
COMB
B
F1
F3
F2
F4
ADDRESS
MARKER
(Underscan) button: When this button is pushed in (ON), the picture is underscanned by 3%, and four ends of the raster is displayed on the screen.
(H delay) button: When this button is pushed in (ON), the picture moves horizontally, and a horizontal sync signal appears approximately one quarter in the left edge of the screen.
• The brightness of the picture increases automatically, and it makes it easy to check the sync part.
• If it is pressed together with the button, a pulse cross picture is displayed.
(V delay) button: When this button is pushed in (ON), the picture moves vertically, and a vertical sync signal appears approximately in the center of the screen.
• The brightness of the picture increases automatically, and it makes it easy to check the sync part.
• If it is pressed together with button, a pulse cross picture is displayed.
MONO button: When this button is pushed in (ON), a monochrome picture is displayed. When the buttons is off, the monitor switches automatically color mode.
Notes
• The MONO button does not function with the RGB signal input.
• When the NTSC or PAL color signals are received and color burst signals are not input, the monitor does not switch to color mode.
APT (aperture) button: When this button is pushed in (ON), the frequency response can be modified. The degree of modification is set with the menu. (When RGB signals are input, the button does not function.)
COMB button: This button does not function with this monitor.
However, when the BKM-127W NTSC/PAL Input Adaptor (optional) is installed and the NTSC or PAL color signals are received, the monitor can be used with the comb filter turned on.
F1 button: When this button is pushed in (ON), the characters disappear from the monitor on the MANUAL menu of the level 1 of the CONTROL PRESET ADJ menu, the MANUAL menu of the level 1 of the COLOR TEMP ADJ menu, and the ALIGNMENT menu.
F2 button: When this button is pushed in (ON), you can access directly the MANUAL menu of the level 1 of the COLOR TEMP ADJ menu, if the short-cut function is assigned to this button.
ADDRESS button: When this button is pushed in (ON), the ADDRESS menu appears on the screen. By using the ADDRESS menu, operation conditions for multiple monitors are set.
For more information about the ADDRESS menu, see "Selecting the Monitor to Control — ADDRESS Menu" on page 45(E).

Location and Function of Parts

Function buttons in SHIFT ON mode (LEDs of function buttons in amber)



16:9 button: When this button is pushed in (ON), the aspect ratio changes to 16:9, and when set to OFF, the aspect ratio changes to 4:3.
The aspect ratio is fixed to 16:9 when the signal other than 4:3 signal format is input. For details, see "Available Signal Format" on page 53(E).

SYNC button: When this button is pushed in (ON), the monitor synchronizes to the sync signal input to the SYNC connectors on the BKM-129X (EXT SYNC). When set to OFF, it synchronizes to the sync signal included in the signals being monitored (INT SYNC).

Notes

- When INT SYNC is selected, use a component including a sync signal on the Y signal, and use RGB signal including a sync signal on the G signal.
- When the BKM-129X is not installed to the monitor or serial digital signals are monitored, INT SYNC is automatically selected. You cannot select EXT SYNC.

BLUE ONLY button: When this button is pushed in (ON), red and green signals are cut, and only the blue signal is displayed as a monochrome picture. It makes it easy to adjust CHROMA and PHASE, and to check VTR noise.

R/G/B buttons: When these buttons are pushed in (ON), R(red), G(green), and B(blue) beams are cut respectively.

F3/F4 buttons: For future expansion.

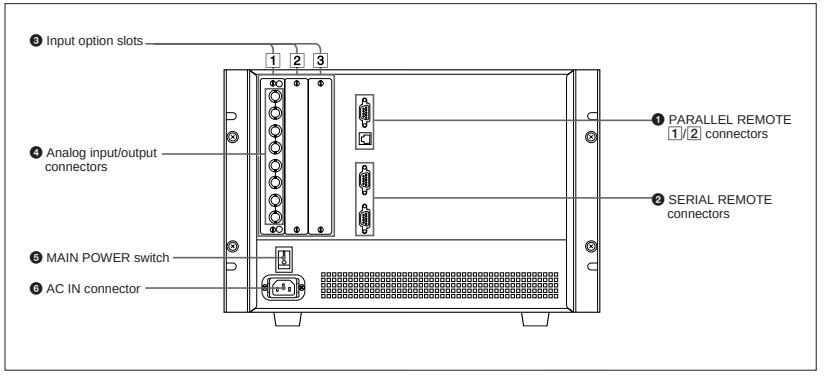
MARKER button: When this button is pushed in (ON), a 4:3 marker is displayed and it is possible to check the 4:3 aspect area in the 16:9 picture.

Note

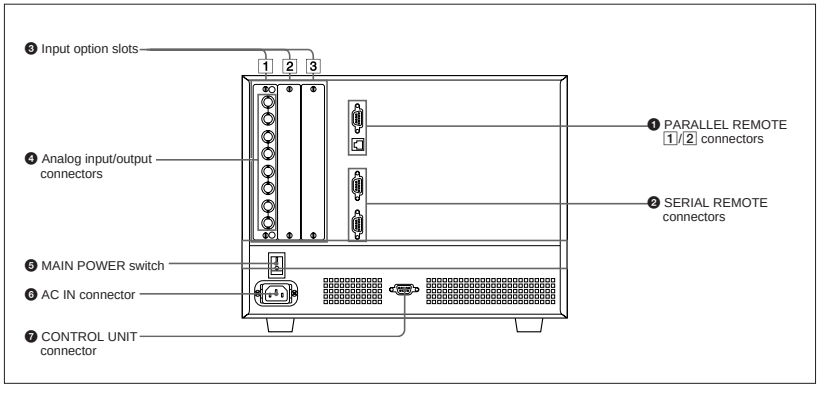
The 4:3 marker is not displayed when the signals of the 4:3 aspect ratio are monitored or the monitor is in H/V delay mode

BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A Rear Panel

BVM-D14H5U/D14H5E/D14H5A


3 Input option slots
1 2 3
1 PARALLEL REMOTE 1/2 connectors
4 Analog input/output connectors
2 SERIAL REMOTE connectors
5 MAIN POWER switch
6 AC IN connector

BVM-D14H1U/D14H1E/D14H1A

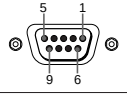

3 Input option slots
1 2 3
1 PARALLEL REMOTE 1/2 connectors
4 Analog input/output connectors
2 SERIAL REMOTE connectors
5 MAIN POWER switch
6 AC IN connector
7 CONTROL UNIT connector

(continued)

Location and Function of Parts

❶ PARALLEL REMOTE 1/2 connectors (1: female, D-sub 9-pin, 2: modular connector)
Form a parallel switch and controls the monitor externally. The pin assignment and factory setting function assigned to each pin are given below.

1: D-sub 9-pin



Pin number	Functions
1	Set input signal channel 1 (numeric keypad function)
2	Set input signal channel 2 (numeric keypad function)
3	Set red tally lamp on or off
4	Set green tally lamp on or off
5	Select sync signal (SYNC button function)
6	Set underscan on or off
7	Set a 16:9 aspect ratio on or off
8	Set the 4:3 area marker display on or off
9	GND

2: modular connector

Pin number	Functions
1	Set input signal channel 1 (numeric keypad function)
2	Set input signal channel 2 (numeric keypad function)
3	Set red tally lamp on or off
4	Set green tally lamp on or off
5	GND
6	Set underscan on or off

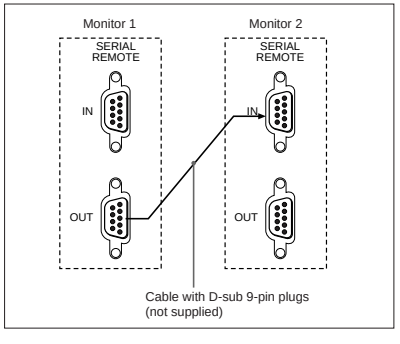
All pin function assignments can be changed with the REMOTE menu.

For information about the REMOTE menu, see " D Assigning the Remote Control Functions — REMOTE Menu" on page 37(E).

To switch each function between on and off or between enable and disable, change pin connections in the following way.
ON or enabled: Short each pin and pin 9 together **for D-sub 9-pin**.
Short each pin and pin 5 together **for modular connector**.
OFF or disabled: Leave each pin open.

❷ SERIAL REMOTE connectors (female, D-sub 9-pin)
These are RS-485 serial interface connectors, used for connecting two or more BVM-xxE/F/G, BVM-xxD and HDM-xxE series monitors.
The IN and OUT connectors form a loop-through connection.

Connect two monitors using a cable with D-sub 9-pin plugs such as an RCC-5G (not supplied) as shown in the figure on the next page.

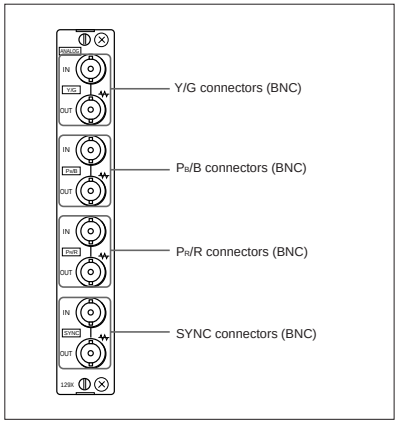


❸ Input option slots (three slots)
The monitor may be fitted with optional input adaptors up to three.
The BKM-129X is installed to the monitor at the factory.

Notes

- The BKM-142HD uses two input option slots.
- Each adaptor can also be installed into SLOT 1. Install any adaptor to SLOT 1.

❹ Analog input/output connectors (BKM-129X)



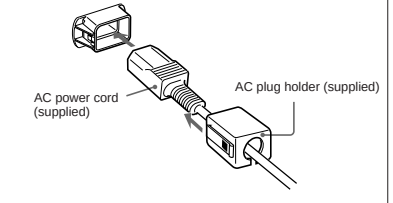
RGB signals or component signals ($Y/P_B/P_R$) can be fed in the IN connectors. The type of signal applied to each connector is set with the INPUT CONFIG menu. The OUT connectors are used for loop-through output of the input signal.

For information about the INPUT CONFIG menu, see " C Setting the Input Configuration — INPUT CONFIG Menu" on page 35(E).

❺ MAIN POWER switch
When turned on, the monitor enters operation mode. By setting in the SYSTEM CONFIG menu, the monitor can also be set to enter standby mode when the MAIN POWER switch is turned on.

For information about the SYSTEM CONFIG menu, see " E Setting the Power-Up Conditions and Data about the Screen Display — SYSTEM CONFIG Menu" on page 39(E).

❻ AC IN connector (3-pin)
Connects the monitor to an AC power source, via the supplied AC power cord.



Attach the AC plug holder to the AC power cord, and connect it to the AC IN connector so that the cord does not come loose.

❼ CONTROL UNIT connector (female, D-sub 9-pin) (BVM-D14H1U/D14H1E/D14H1A only)
Connects a monitor control unit such as the BKM-10R using a cable with D-sub 9-pin plugs such as an RCC-5G (not supplied).

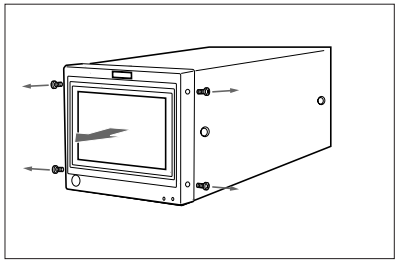
Installation of the 4:3 Mask

When the aspect ratio is switched from 16:9 to 4:3, replace the 16:9 mask with the supplied 4:3 mask.

BVM-D9H1U/D9H1E/D9H1A/ D9H5U/D9H5E/D9H5A

Installing the 4:3 mask

1 Remove four screws from both sides of the monitor and then remove the16:9 mask.



2 Install the 4:3 mask (supplied) and fix both sides with four screws.

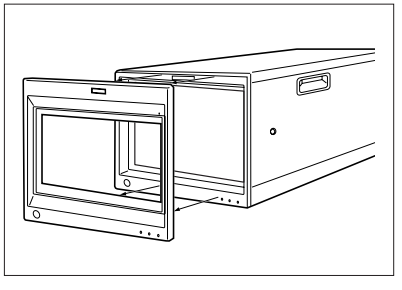
Replacing the 16:9 mask

Remove the 4:3 mask and replace the 16:9 mask using the same procedures as those for installing the 4:3 mask.

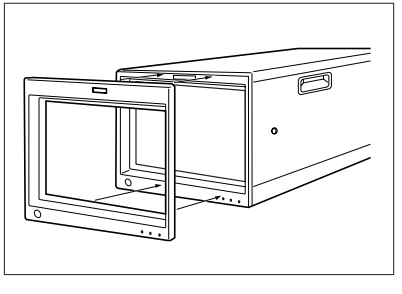
BVM-D14H1U/D14H1E/D14H1A/ D14H5U/D14H5E/D14H5A

Installing the 4:3 mask

1 Remove the 16:9 mask.



2 Install the 4:3 mask (supplied).
① Attach the lower portion of the mask.
② Attach the upper portion of the mask by pressing it until the click.



Replacing the 16:9 mask

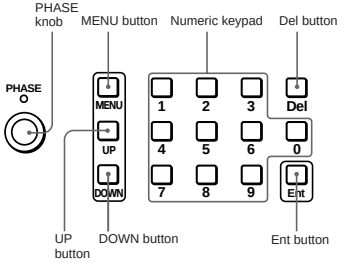
Remove the 4:3 mask and replace the 16:9 mask using the same procedures as those for installing the 4:3 mask.

Basic Menu Operations

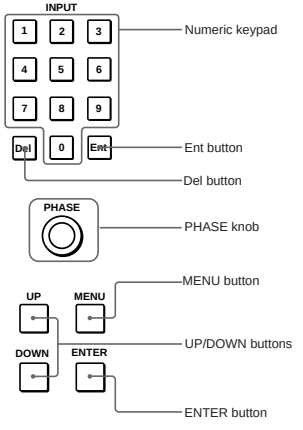
Menu Operation Buttons

The menus are operated using the menu operation buttons on the front panel of the monitor or BKM-10R/11R Monitor Control Unit.

Buttons on the BVM-D9H5U/D9H5E/D9H5A



Buttons on the BVM-D14H5U/D14H5E/D14H5A



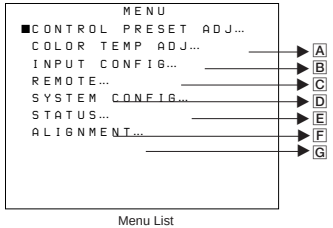
The functions of the menu operation buttons are described below.

Button	Function
UP button	Moves the cursor upward. In setting mode, increases the setting and adjustment values.
DOWN button	Moves the cursor downward. In setting mode, decreases the setting and adjustment values.
MENU button	Displays the Menus. Goes back to the menu of the upper level (on the Main Menu, goes back to the normal picture).
ENTER button/ Ent button	Executes the items selected and settings.
PHASE knob	By turning this knob clockwise, the cursor moves upward. In setting mode, increases the setting and adjustment values (has the same function as UP button). By turning this knob counterclockwise, the cursor moves downward. In setting mode, decreases the setting and adjustment values (has the same function as DOWN button).
Numeric keypad	Enters the numerical values.
Del button	Deletes the values and characters entered.

Basic Menu Operations

Displaying the Menus

Press the MENU button.
The menu list is displayed on the screen.



Menu List

When you select one item on the main menu, the level 1 menu corresponding to the selected item on the main menu appears.

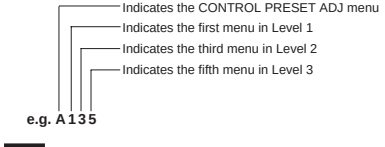
For information about the items on the main menu, see "Menu Structure" on page 30(E).

Note

Menu settings that cannot be changed are displayed in blue.

About menu numbers

For purposes of explanation in this manual, each menu is preceded by menu numbers. The alphabet determines the classification of menus on the Menu List (Main Menu), and the numbers determine the level and the order. These menu numbers are not shown on the screen.


Indicates the CONTROL PRESET ADJ menu
Indicates the first menu in Level 1
Indicates the third menu in Level 2
Indicates the fifth menu in Level 3
e.g. A135

Note

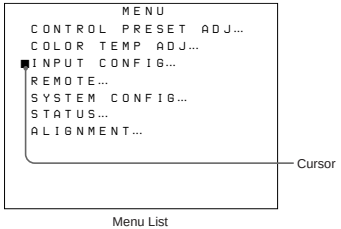
Only the menus which require explanation are preceded by menu numbers. Thus, the menu number is counted without menus which do not require explanation.

Menu Operation

Follow the steps described below to display the menu and perform the adjustment or setup you wish.

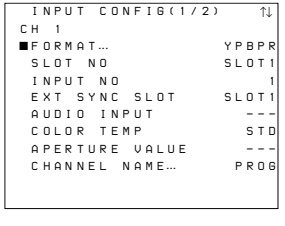
1 Press the MENU button.
The Menu List is displayed.

2 Using the UP/DOWN buttons or PHASE knob, move the cursor to the desired item. (Example: select the INPUT CONFIG menu by pressing the DOWN button.)



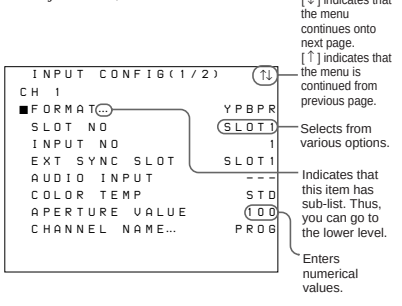
Menu List

3 Press the ENTER button or Ent button.
The Level 1 of the selected menu is displayed.



(continued)

4 Repeat steps **2** and **3** until the desired menu is displayed.
For more information about setting and adjustments, see below.


[↓] indicates that the menu continues onto next page.
[↑] indicates that the menu is continued from previous page.
INPUT CONFIG(1/2) ↑↓
CH 1
■FORMAT… YPBPR
SLOT NO SLOT1
INPUT NO 1
EXT SYNC SLOT SLOT1
AUDIO INPUT ---
COLOR TEMP STD
APERTURE VALUE 100
CHANNEL NAME… PROG
Selects from various options.
Indicates that this item has sub-list. Thus, you can go to the lower level.
Enters numerical values.

To abort menu operation

Press the MENU button. The menu of the upper level is displayed.
The setting or adjustment being performed is canceled, and data loading or saving is aborted.

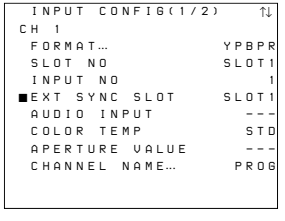
If "NG" or "ERROR" appears during menu operation

Press the MENU button to return to the menu in use.

Choosing one of two or more selections

Selecting in setting mode

1 Using the UP/DOWN buttons or PHASE knob, move the cursor to the desired item and press the ENTER or Ent button.
The selected item is displayed in yellow text and set to setting mode.

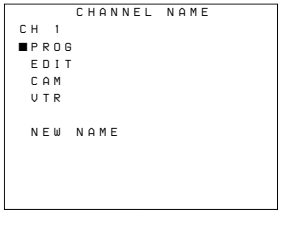


2 Using the UP/DOWN buttons or PHASE knob, change the setting.

3 Press the ENTER or Ent button.
The setting is confirmed (The item is displayed in white text again).

Selecting from the setting list

1 Using the UP/DOWN buttons or PHASE knob, move the cursor to the desired item in the setting list.



2 Press the ENTER or Ent button.
The display returns to the menu of the upper level, and the selected setting is executed.

Entering a numerical value

1 Using the UP/DOWN buttons or PHASE knob, move the cursor to the desired item and press the ENTER or Ent button.
The selected item is displayed in yellow text and set to setting mode.

```
  INPUT CONFIG(1/2)      ↑↓
CH 1
 FORMAT…              YPBPR
 SLOT NO              SLOT1
 INPUT NO                 1
 EXT SYNC SLOT        SLOT1
 AUDIO INPUT            ---
 COLOR TEMP             STD
■APERTURE VALUE         100
 CHANNEL NAME…         PROG
```

2 Set the value in one of the following three ways:
- Enter the value directly using the numeric keypad and press the ENTER or Ent button
- Select the value using the UP/DOWN buttons
- Select the value using the PHASE knob

3 Press the ENTER or Ent button.
The setting is confirmed (The item is displayed in white text again).

Entering characters

1 Display the setting menu and set the cursor to NEW NAME using the UP/DOWN buttons or PHASE knob.

```
      CHANNEL NAME
CH 1
 PROG
 EDIT
 CAM
 VTR

■NEW NAME
```

2 Press the ENTER or Ent button.
"?" is displayed in yellow. The "?" indicates the position where character input is possible.

```
      CHANNEL NAME
CH 1
 PROG
 EDIT
 CAM
 VTR

■NEW NAME
 ?
```

3 Select the character you wish to enter using the UP/DOWN buttons or PHASE knob.
When you press the UP button, or turn the PHASE knob clockwise, the characters and symbols appear in the order shown below.

A B .....Y Z 0 1 .....8 9 (,) : ; . - + / & (space) ?

If you press the UP/DOWN button or turn the PHASE knob counterclockwise, the characters and symbols appear in the reverse order described above.

4 Press the ENTER or Ent button.
The selected character is entered.

```
      CHANNEL NAME
CH 1
 PROG
 EDIT
 CAM
 VTR

■NEW NAME
 C?
```

5 Repeat steps **3** and **4** until all the characters are entered, then press the ENTER or Ent button.
The selected characters are confirmed, and the display returns to the menu of the previous level.

To correct the entered character

Press the Del button on the numeric keypad. The character on the left side of the "?"(in yellow) is deleted.

ADDRESS Menu

In addition to the menus displayed on the menu list, the ADDRESS menu is provided. This ADDRESS menu is used to select the monitor or the monitor group, so that when several monitors are connected together via serial remote ports, the control panel can select which monitor to control.
To display or exit the ADDRESS menu, press the ADDRESS button. The method of choosing menu items and changing settings is the same as with the other menus.

For information about the ADDRESS menu, see "Selecting the Monitor to Control —ADDRESS Menu" on page 45(E).

Menu Structure

Menus consist of one to three levels.

Detailed information on the levels of menus is described at the top of explanation of each menu.

	Main Menu	Functions
A	**CONTROL PRESET ADJ menu**	Sets the preset values for the input signal's chroma, contrast, phase, and brightness. (page 31(E))
B	**COLOR TEMP ADJ menu**	Sets the color temperature. (page 33(E))
C	**INPUT CONFIG menu**	Sets the input channel. (page 35(E))
D	**REMOTE menu**	Sets the remote control functionality. (page 37(E))
E	**SYSTEM CONFIG menu**	Sets the power-up conditions and data about the screen display. (page 39(E))
F	**STATUS menu**	Displays the information about the monitor or options installed in the monitor. (page 42(E))
G	**ALIGNMENT menu**	Adjusts the position, size and geometry of the picture. (page 43(E))

A Preset Adjustment of the Picture Level Control Knobs — CONTROL PRESET ADJ Menu

Overview

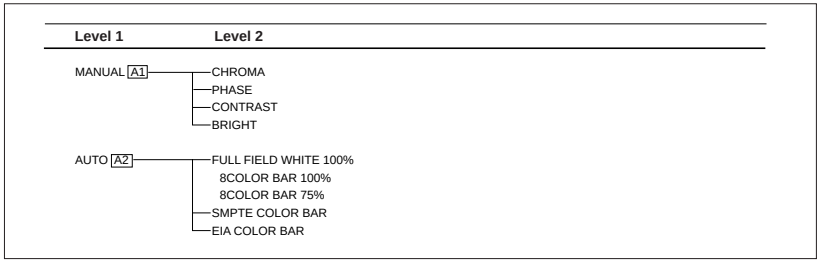
The preliminary adjustments of chroma, phase, contrast and brightness are carried out with the CONTROL PRESET ADJ menu to set the preset values to the knobs for the above-mentioned adjustments.

Preset values can be set in the following two ways:
- **Adjustment with the MANUAL adjustment knobs (MANUAL menu)**
- **Automatic adjustment (AUTO menu)**
  An external color bar signal is necessary.

Note

After installing the optional board, carry out AUTO adjustment.

Structure of the CONTROL PRESET ADJ Menu



Setting Lists in the CONTROL PRESET ADJ Menu

This section explains the setting lists displayed in the menu.

How to read the setting lists

- For purposes of explanation, each setting list is preceded by a menu number. These numbers are not displayed on the screen.
  For more information about the menu number, see "About menu numbers" on page 26(E).
- The arrow mark (⇨) refers you to another setting list that appears after you make the setting, or to an operation that is carried out as a result of the setting. When there is no arrow mark, the menu does not have any sub-list.

A Preset Adjustment of the Picture Level Control Knobs — CONTROL PRESET ADJ Menu

A CONTROL PRESET ADJ menu
Select the setting method.
MANUAL... : Set with the MANUAL adjustment knobs. ⇨A1
AUTO... : Set by automatic adjustment. ⇨A2

A1 MANUAL menu
Adjust values by turning the CHROMA, PHASE, CONTRAST, and/or BRIGHT knobs. After the adjustment, press the ENTER or Ent button to confirm the adjusted values.
The setting value is 0 to 200.
CHROMA: xxx
PHASE: xxx
CONTRAST: xxx
BRIGHT: xxx

When you want to erase characters from the screen while adjusting manually
Press the F1 button. The characters disappear. To display characters, press the F1 button again.

To reset the setting to the default
Press the corresponding MANUAL adjustment button (BVM-D14H5U/D14H5E/D14H5A) or knob (BVM-D9H5U/D9H5E/D9H5A.) The adjusted value is reset to 100 (default).

A2 AUTO menu
You can adjust the CHROMA and PHASE levels automatically. Input the color bar signals to the board to be adjusted and select the required color bar signals.
⇨Adjustment is carried out.
8COLOR BAR 100%: 100% full-field 8-color bar (white, yellow, cyan, green. magenta, red, blue, black)
8COLOR BAR 75%: 75% full-field color bar (with 100% white signal)
SMPTE COLOR BAR: SMPTE standard color bar
EIA COLOR BAR: EIA standard color bar

Note
When you execute the AUTO menu, SYNC button should be set to OFF (INT SYNC).
EXT SYNC will cause an error abortion of auto adjustment procedure.

B Adjusting the Color Temperature — COLOR TEMP ADJ Menu

Overview

The monitor can memorize the data for up to three color temperatures (STD, COL1, COL2.) The data for each color temperature is adjusted with the COLOR TEMP ADJ menu. The data of the color temperature selected in the INPUT CONFIG menu is adjusted. Color temperature adjustment can be made in the following three ways:

- **Knob adjustment (MANUAL menu)**
  You can adjust the color temperature with the bias and gain knobs.
- **Automatic adjustment using a probe (PROBE menu)**
  You can use the following probes for automatic adjustment of color temperature. Except for the Sony BKM-14L, a cable is required to connect the color analyzer to the monitor.

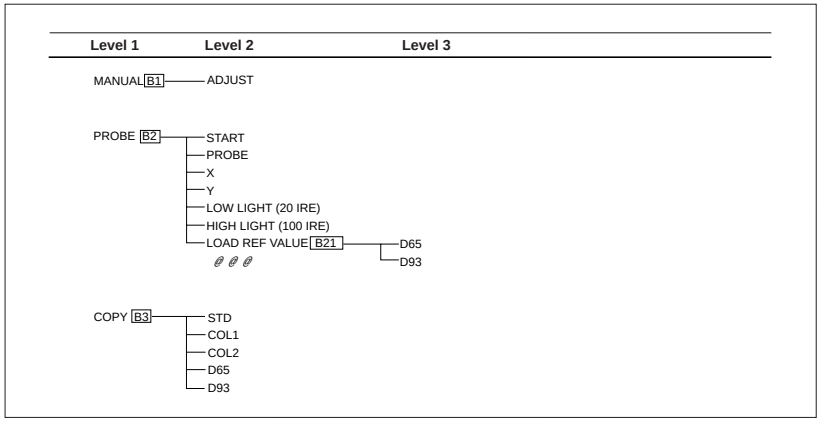
Manufacturer	Probe Model Name
SONY	BKM-14L (no cable required)
GRASEBY	SLS 9400
MINOLTA	CA-100
PHILIPS	PM 5639
THOMA	TF6

For more information about the cable specification required and about the connection, see "Connection Cable Specifications for Color Temperature Probes" on page 54(E).

Notes
- The CRT size of the BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A is small. So, when a probe other than the Sony BKM-14L is used, use the probe closely to the CRT screen.
- After the color temperature is adjusted by automatic adjustment, carry out the AUTO adjustment of the CONTROL PRESET ADJ menu (AUTO CHROMA PHASE adjustment.)

- **Copying other color temperature data (COPY menu)**
  You can copy the memorized color temperature data (STD/COL1/COL2/D65/D93.) Use the factory setting value or the adjusted value as an original value to shorten the adjustment time.

Structure of the COLOR TEMP ADJ Menu



B Adjusting the Color Temperature — COLOR TEMP ADJ Menu

Setting Lists in the COLOR TEMP ADJ Menu

This section explains the setting lists displayed in the menu.

How to read the setting lists

- For purposes of explanation, each setting list is preceded by a menu number. These numbers are not displayed on the screen.
  For more information about the menu number, see "About menu numbers" on page 26(E).
- The arrow mark (⇨) refers you to another setting list that appears after you make the setting, or to an operation that is carried out as a result of the setting. When there is no arrow mark, the menu does not have any sub-list.

B COLOR TEMP ADJ menu

Select the adjustment method.
MANUAL... : Set with the MANUAL adjustment knob. ⇨B1
PROBE... : Set using a probe. ⇨B2
COPY... : Copy data from elsewhere. ⇨B3

B1 MANUAL menu

Adjust the gain and bias with the MANUAL adjustment knob.
ADJUST... : Adjust the gain and bias. To shift between gain adjustment and bias adjustment, press UP/DOWN buttons. Use appropriate knobs in each adjustment as described below. After the adjustment, press the ENTER or Ent button to confirm the adjusted values.
RED: CONTRAST KNOB (Adjust the R gain or bias with the CONTRAST knob.)
GREEN: BRIGHT KNOB (Adjust the G gain or bias with the BRIGHT knob.)
BLUE: CHROMA KNOB (Adjust the B gain or bias with the CHROMA knob.)
LUMINANCE: PHASE KNOB (Adjust luminance with the PHASE knob.)

To reset RED/GREEN/BLUE to the value before adjustment

When you are adjusting the gain or bias using the MANUAL adjustment knobs, you can reset the setting to the one before adjustment by pressing the corresponding MANUAL adjustment button (BVM-D14H5U/D14H5E/D14H5A) or knob (BVM-D9H5U/D9H5E/D9H5A).
To reset all of settings at the same time, press the PHASE button or knob.

Note

You cannot reset the setting after you press the ENTER or Ent button.

To access the MANUAL menu directly

When the F2 button is assigned as the short-cut key to the MANUAL menu, you can directly access the MANUAL menu that corresponds to the color temperature setting (STD/COL1/COL2) set to the image on the screen.
For details of how to assign the short-cut key, see "E Setting the Power-Up Conditions and Data about the Screen Display — SYSTEM CONFIG Menu" on page 39(E).

B2 PROBE menu

Select the probe for color temperature adjustment.
START: Start adjustment.
PROBE: Select the probe.
X: Enter the x coordinate.
Y: Enter the y coordinate.
LOW LIGHT (20IRE): Enter the luminance (cd/m^2) for low light.
HIGH LIGHT (100IRE): Enter the luminance (cd/m^2) for high light.
LOAD REF VALUE: Select the standard settings of the x and y coordinates. ⇨B21

B21 LOAD REF VALUE

Select one of the followings:
D65: Use D65 setting (x and y coordinates and standard luminance).
D93: Use D93 setting (x and y coordinates and standard luminance).

B3 COPY menu

Select one of followings: ⇨ The current data, which is used for adjusting, is copied.
STD: Copy STD data (factory setting: D65).
COL1: Copy COL 1 data (factory setting: D93).
COL2: Copy COL 2 data (factory setting: D65).
D65: Copy the color temperature of D65.
D93: Copy the color temperature of D93.

Note

The current data which is used for adjusting (selected in the INPUT CONFIG menu) is displayed in blue letters and you can not select it.

C Setting the Input Configuration — INPUT CONFIG Menu

Overview

You can set up to nine input channels.
Data pertaining to the input signals are set with the INPUT CONFIG menu.
When a channel number (1 to 9) is entered with the numeric keypad, it is then possible to set which input connector on the rear panel will be assigned to that channel number, and select the type of signal that will be connected.

Assigning slot and connector numbers

Set which input connector on which slot will be assigned to the current channel.

Assigning the signal type and format

The signal type and format which can be assigned to each channel number vary, depending on what adaptors are installed in the rear panel.

To assign D1 serial digital signals

Serial digital signals can be assigned to the slot where the BKM-120D is installed.

To assign analog composite signals

Analog composite signals can be assigned to the slot where the BKM-127W is installed.

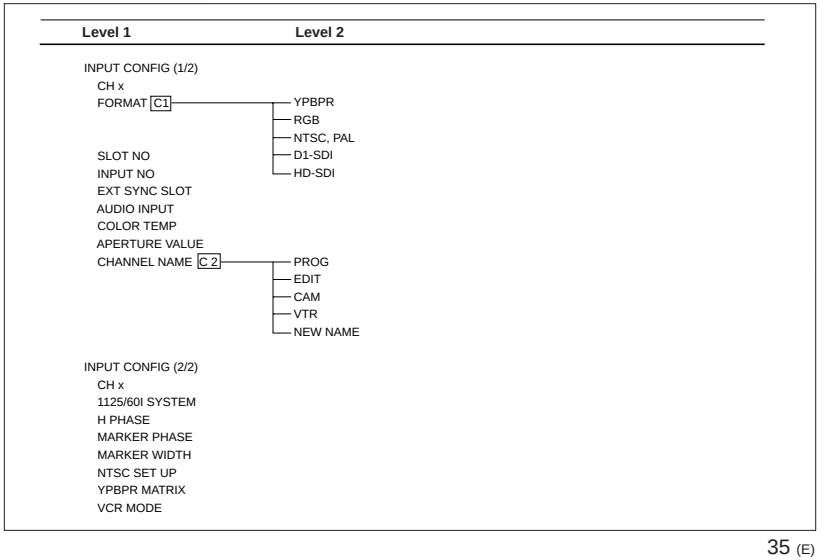
To assign HD serial digital signals

HD serial digital signals can be assigned to the slots where the BKM-142HD is installed.

To assign analog component or RGB signals

Analog component or RGB signals can be assigned to the slot where BKM-129X is installed.

Structure of the INPUT CONFIG Menu



C Setting the Input Configuration — INPUT CONFIG Menu

Setting Lists in the INPUT CONFIG Menu

This section explains the setting lists displayed in the menu.

How to read the setting lists

- For purposes of explanation, each setting list is preceded by a menu number. These numbers are not displayed on the screen.
  For more information about the menu number, see "About menu numbers" on page 26(E).
- The arrow mark (⇨) refers you to another setting list that appears after you make the setting, or to an operation that is carried out as a result of the setting. When there is no arrow mark, the menu does not have any sub-list.

C (1/2) INPUT CONFIG (1/2) menu

Set input signal data for each channel.

CH x: Current channel is indicated. To change the channel, enter a channel number with the numeric keypad. The settings below will be stored as information of this channel.
FORMAT... : Select the input signal type. ⇨C1
SLOT NO: Select the slot number.
INPUT NO: Select the input connector number.
EXT SYNC SLOT: Select the slot when the external sync signal is used.
AUDIO INPUT (BVM-D9H5U/D9H5E/D9H5A only): Select the audio input number.
COLOR TEMP: Select the color temperature.
APERTURE VALUE: Enter the aperture adjustment value (0 to 200).
CHANNEL NAME: Give the channel a name. ⇨C2

C (2/2) INPUT CONFIG (2/2) menu

Set input signal data for each channel.

CH x: Current channel is indicated. To change the channel, enter a channel number with the numeric keypad. The settings below will be stored as information of this channel.
1125/60I SYSTEM: Select the number of active scanning lines per frame for 1125/60I input signals. When the HD SDI signal is input, the number of active scanning lines is selected automatically.
1035: The active scanning lines are 1035 lines.
1080: The active scanning lines are 1080 lines
H PHASE: Set the horizontal picture position (–128 to +127).
MARKER PHASE: Set the 4:3 marker position.
MARKER WIDTH: Set the 4:3 marker width.
NTSC SET UP: Set the setup level when the BKM-127W is installed. SETUP 7.5 or 0.
YPBPR MATRIX: Select the matrix when YP_BP_R signals of the signal format 480/60I or 480/60P (TV lines 525) are input.
VCR MODE: Compensate for a distorted picture when the input signals from the VCR are not typical. This mode is effective when the signal formats 480/60I or 575/50I are input.
ON: Operates when the signal formats 480/60I or 575/50I are input.
OFF: Does not operate.

C1 FORMAT menu

Select the signal format.

YPBPR: Select the component signals when the BKM-129X is installed. SPMTE, BETACAM 7.5 or 0.
RGB: Select when the BKM-129X is installed.
NTSC, PAL: Selects when the BKM-127W is installed.
D1-SDI: Select when the BKM-120D is installed.
HD-SDI: Select when the BKM-142D is installed.

C2 CHANNEL NAME menu

Give the channel a name. Enter a name after a preset one or a new one.

PROG: Program signal.
EDIT: Signal from an editor.
CAM: Camera signal.
VTR: Signal from a VTR.
NEW NAME: Enter a new name. (Up to 20 characters can be entered and up to six characters from the head of the name are displayed in the INPUT CONFIG menu (C 1/2).)

D Assigning the Remote Control Functions — REMOTE Menu

Overview

The remote control functions are set with the REMOTE menu. With this monitor, both serial remote control (SERIAL REMOTE) and parallel remote control (PARALLEL REMOTE) are possible.

- **Settings for the serial remote control (SERIAL REMOTE)**
  An address number (MONITOR ADDRESS) and group number (GROUP ADDRESS) can be assigned to the monitor connected to the SERIAL REMOTE connector.
- **ON/OFF setting for the parallel remote control (PARALLEL REMOTE)**
- **Settings for the parallel remote control (PARALLEL REMOTE)**
  Functions can be assigned to the pins of the PARALLEL REMOTE connector.

Priority order of the remote control functions

It is possible to simultaneously use the BKM-10R/11R Monitor Control Unit, SERIAL REMOTE, and PARALLEL REMOTE for control, but commands from PARALLEL REMOTE have priority. Therefore, it is impossible for the BKM-10R/11R or SERIAL REMOTE to change items set by PARALLEL REMOTE.
There is no priority order between commands from SERIAL REMOTE and the BKM-10R/11R control panel.

PARALLEL REMOTE 1 and 2 are connected parallel inside the unit, therefore, there is no priority order between them.

About monitor address and group numbers

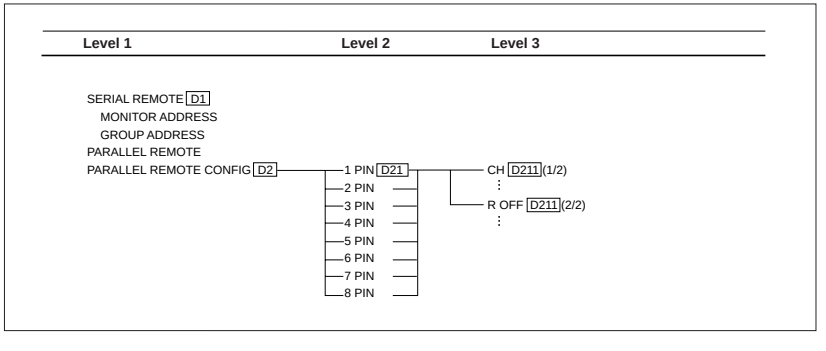
It is possible to control up to 32 monitors connected via serial remote connector (using the SERIAL REMOTE connector). By giving each monitor a monitor address and group number, it is possible to control just a specific monitor or monitor group.
With the SERIAL REMOTE menu, each monitor can be set with a monitor address and group number, between 1 and 99.
The ADDRESS menu is used to control the monitors which are connected by the serial remote connectors.

For information about the ADDRESS menu, see "Selecting the Monitor to Control — ADDRESS Menu" on page 45(E).

Note

The address number must differ from one monitor to another. If two or more monitors have the same address number, an operation error occurs.

Structure of the REMOTE Menu



D Assigning the Remote Control Functions — REMOTE Menu

Setting Lists of the REMOTE Menu

This section explains the setting lists displayed in the menu.

How to read the setting lists

- For purposes of explanation, each setting list is preceded by a menu number. These numbers are not displayed on the screen.
  For more information about the menu number, see "About menu numbers" on page 26(E).
- The arrow mark (⇨) refers you to another setting list that appears after you make the setting, or to an operation that is carried out as a result of the setting. When there is no arrow mark, the menu does not have any sub-list.

D REMOTE menu

Select the type of remote control.

SERIAL REMOTE : Set the address and group number of the monitor controlled via the SERIAL REMOTE connector. ⇨D1

PARALLEL REMOTE: Select whether parallel remote control will be used or not (ON or OFF.)

PARALLEL REMOTE CONFIG : Set the pin assignments for the PARALLEL REMOTE connector. ⇨D2

D1 SERIAL REMOTE menu

Set the monitor address and group number.

MONITOR ADDRESS: Enter a number.

GROUP ADDRESS: Enter a number.

D2 PARALLEL REMOTE CONFIG menu

Select the PARALLEL REMOTE connector pins for which you want to change the function. The factory settings for each pin are given below. ⇨D211

PINs 1 to 4, and PIN 6 of the PARALLEL REMOTE 1 and 2 are common settings.

1 PIN: CH01
2 PIN: CH02
3 PIN: TALLY RED
4 PIN: TALLY GREEN
5 PIN: EXT SYNC (PARALLEL REMOTE 1)
GND (PARALLEL REMOTE 2)
6 PIN: UNDERSCAN
7 PIN: 16:9
8 PIN: 4:3 MARKER

Note

PINs 1 to 4, and PIN 6 of the PARALLEL REMOTE 1 and 2 are connected inside the unit, therefore different functions cannot be assigned to those pins.

D211 (1/2) 1-8 PIN menu (1/2)

Assign a function to the selected pin.

CH: Select a channel number. Enter the desired channel number with the numeric keypad.
----: Set to unused.
UNDER SCAN: Set underscan on or off.
16:9: Set a 16:9 aspect ratio on or off.
H DELAY: Set the horizontal sync display on or off.
V DELAY: Set the vertical sync display on or off.
EXT SYNC: Set the synchronization to external sync signals enabled or disabled.
APERTURE: Set the correction of frequency characteristics enabled or disabled.
MONO: Set monochrome display on or off.
BLUE ONLY: Set the blue signal pictures display (monochrome) on or off.

D211 (2/2) 1-8 PIN menu (2/2)

Assign a function to the selected pin.

R OFF: Set cutting red beams enabled or disabled.
G OFF: Set cutting green beams enabled or disabled.
B OFF: Set cutting blue beams enabled or disabled.
4:3 MARKER: Set the 4:3 marker display on or off.
CAPTION VISION: Set Caption Vision on or off.
TALLY RED: Set tally red on or off.
TALLY GREEN: Set tally green on or off.
DEGAUSS: Set degaussing on or off.
POWER OFF: Set the monitor power on or off.

For the pin assignment, see "PARALLEL REMOTE 1/2 connectors" in the Location and Function of Parts on page 13(E) for BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A or page 22(E) for BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A.

E Setting the Power-Up Conditions and Data about the Screen Display — SYSTEM CONFIG Menu

Overview

The SYSTEM CONFIG menu is displayed on the two pages.
The SYSTEM CONFIG (1/2) menu is used for the following settings:

- **Power-up condition (STANDBY MODE menu)**
  This menu sets the condition of the monitor when the MAIN POWER switch on the rear panel is switched on (BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A) or when the battery is installed (BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A.)
- **Power-up input channel (DEFAULT CH menu)**
  This menu sets the power-up input channel.
- **Time from power-up until degauss (DEGAUSS DELAY menu)**
  If several monitors are turned on at the same time and all start degaussing at the same time, there will be a very large current draw on the power supply for a few moments. To prevent this, the delay time between power-up and degaussing can be set for each monitor independently.
- **Setting of the contrast and brightness after adjusting the white balance (CONT/BRT HOLD menu)**
  Selects if the adjusted contrast and brightness are retained or they are reset to the center values, when the color temperature is adjusted in the COLOR TEMP ADJ menu.
- **Assigning shortcut to the COLOR TEMP ADJ menu to the F2 key (COL TEMP SHORT-CUT menu)**
  Assigns the shortcut to the MANUAL menu of the COLOR TEMP ADJ menu to the F2 key. This allows you to jump directly to the MANUAL menu corresponding to the color temperature set to the currently displayed image (STD/COL 1/COL 2.)
- **Auto color control (ACC SW menu) (when using the BKM-127W)**
  Selects if the ACC (Auto Color Control) circuit is turned on or off.
- **Selecting the monitor to copy the original data (CONFIG COPY menu)**
  Setting data of the INPUT CONFIG and SYSTEM CONFIG (except the DEGAUSS DELAY data) menus can be copied from the serial connected monitor.

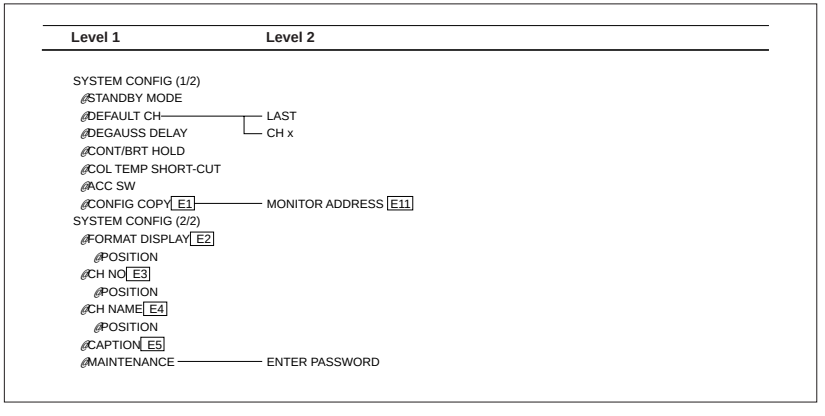
The SYSTEM CONFIG (2/2) menu is used for the following settings:

- **Display mode and position of the signal format (FORMAT DISPLAY and POSITION menus)**
- **Display mode and position of the channel number (CH NO and POSITION menus)**
- **Display mode and position of the channel name (CH NAME and POSITION menus)**
- **Display mode of the caption (CAPTION menu)**

- **Maintenance (MAINTENANCE menu)**
  This is for a service qualified personnel.

E Setting the Power-Up Conditions and Data about the Screen Display — SYSTEM CONFIG Menu

Structure of the SYSTEM CONFIG Menu



Setting Lists of the SYSTEM CONFIG Menu

This section explains the setting lists displayed in the menu.

How to read the setting lists

- For purposes of explanation, each setting list is preceded by a menu number. These numbers are not displayed on the screen.
  For more information about the menu number, see "About menu numbers" on page 26(E).
- The arrow mark (⇨) refers you to another setting list that appears after you make the setting, or to an operation that is carried out as a result of the setting. When there is no arrow mark, the menu does not have any sub-list.
- The factory setting is shown in the brackets.

E (1/2) SYSTEM CONFIG (1/2) menu

Set each of the following items.

STANDBY MODE: Select the power-up condition when the MAIN POWER switch is turned on (BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A) or when the battery is installed (BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A.)
ON: Standby mode
[OFF]: Operation mode

DEFAULT CH: Select the power-up input channel (LAST or CH x).
[LAST]: Set the channel to the channel that was selected at the time the power was last turned off.
CH x: Set the channel to a specific channel number.

DEGAUSS DELAY: Set the time between power-up and the beginning of degaussing. Enter the desired time (in seconds, 0 to 255).

CONT/BRT HOLD: Select the contrast and brightness settings to the center or adjusted value after adjusting the white balance or auto adjustment of CONTROL PRESET ADJ (OFF or ON).
ON: The contrast and brightness are set to the value before adjusting.
[OFF]: The contrast and brightness are set to the center value (100) after adjusting.

COL TEMP SHORT-CUT: Assign the shortcut function to the MANUAL menu of the COLOR TEMP ADJ menu to F2 key (OFF or F2).
F2: Assigns the shortcut to the MANUAL menu of the COLOR TEMP ADJ menu.
[OFF]: Does not assign the shortcut to the MANUAL menu of the COLOR TEMP ADJ menu.

ACC SW: Set the automatic color control switch (OFF or ON).

CONFIG COPY...: Copy setting data of the INPUT CONFIG and SYSTEM CONFIG (except the DEGAUSS DELAY data) menus from the serial connected BVM-D9H/D14H monitor. ⇨E11

E11 MONITOR ADDRESS menu

Set the address number of the monitor to be copied.

E (2/2) SYSTEM CONFIG (2/2) menu

Select items to be displayed on the screen.

FORMAT DISPLAY: Select the display mode of the signal format. ⇨E2 (2/2)
POSITION: Select the display position of the signal format. ⇨E2 (2/2)

CH NO: Select the display mode of the channel number. ⇨E3 (2/2)
POSITION: Select the display position of the channel number. ⇨E3 (2/2)

CH NAME: Select the display mode of the channel name. ⇨E4 (2/2)
POSITION: Select the display position of the channel name. ⇨E4 (2/2)

CAPTION: Select the caption display mode. ⇨E5 (2/2)

MAINTENANCE...: Menu for service personnel.

E2 (2/2) FORMAT DISPLAY and POSITION menus

FORMAT DISPLAY menu
Select the display mode of the signal format.
[AUTO]: Disappears after displayed for a while.
ON: Displayed.
OFF: Not displayed.

POSITION menu
Select the display position.
[BOTTOM LEFT]
BOTTOM CENTER
BOTTOM RIGHT
TOP LEFT
TOP CENTER
TOP RIGHT

E3 (2/2) CH NO and POSITION menus

CH NO menu
Select the display mode of the channel number.
[AUTO]: Disappears after displayed for a while.
ON: Displayed.
OFF: Not displayed.

POSITION menu
Select the display position.
BOTTOM LEFT
BOTTOM CENTER
[BOTTOM RIGHT]
TOP LEFT
TOP CENTER
TOP RIGHT

E4 (2/2) CH NAME and POSITION menus

CH NAME menu
Select the display mode of the channel name.
[AUTO]: Disappears after displayed for a while.
ON: Displayed.
OFF: Not displayed.

POSITION menu
Select the display position.
BOTTOM LEFT
BOTTOM CENTER
BOTTOM RIGHT
[TOP LEFT]
TOP CENTER
TOP RIGHT

E5 (2/2) CAPTION menu

Select the caption display mode.
[OFF]: Not displayed
CAPTION 1: Displayed in CAPTION 1 mode.
CAPTION 2: Displayed in CAPTION 2 mode.
TEXT 1: Displayed in TEXT 1 mode.
TEXT 2: Displayed in TEXT 2 mode.

F Displaying Information About the Monitor — STATUS Menu

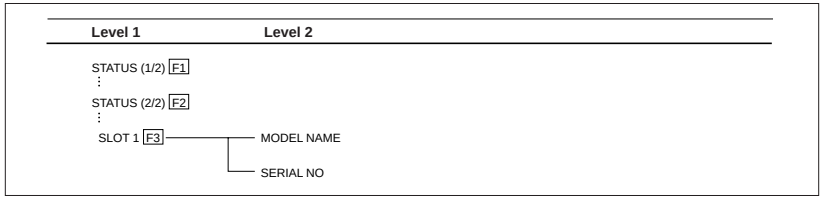
Overview

The STATUS menu is used to view general data about the monitor and information about signals assigned to the slots in the rear panel.

The following information is displayed on the two pages of the STATUS menu.

- **Data about the current channel (STATUS menu (1/2))**
- **Data about the monitor in use and data about the input adaptors installed into the slots on the rear panel (STATUS menu (2/2))**

Structure of the STATUS Menu



Setting Lists of the STATUS Menu

This section explains the setting lists displayed in the menu.

How to read the setting lists

- For purposes of explanation, each setting list is preceded by a menu number. These numbers are not displayed on the screen.
  For more information about the menu number, see "About menu numbers" on page 26(E).
- The arrow mark (⇨) refers you to another setting list that appears after you make the setting, or to an operation that is carried out as a result of the setting. When there is no arrow mark, the menu does not have any sub-list.

F STATUS menu

Select the STATUS menu 1/2 or 2/2. ⇨F1

F1 STATUS (1/2) menu

Data about the current channel is displayed.
CH: channel number
SL: slot number
IN: input connector number
FORMAT: format of the input signal
NAME: channel name

F2 STATUS (2/2) menu

Data about the monitor is displayed at the upper half of the display.
MODEL NAME: model name
SERIAL NO: serial number
OPERATION TIME: operation time (in hours)
SOFTWARE VERSION: software version

Data about the input adaptors installed into the respective slots in the rear panel is displayed at the lower half of the display.
When the BKM-129X is installed in SLOT 1, the following is displayed. When any optional boards are not installed, EMPTY is displayed for SLOT 2 and SLOT 3.
SLOT1: COMPONENT ⇨F3
SLOT2: EMPTY ⇨F3
SLOT3: EMPTY ⇨F3

F3 SLOT 1 to 3 menu

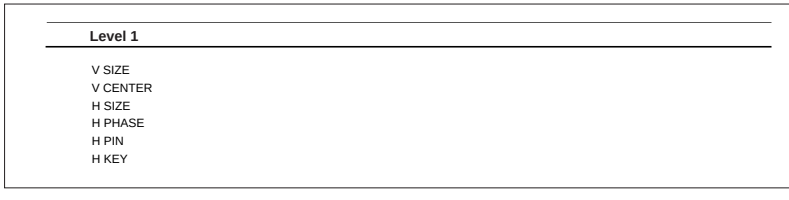
Select the desired slot. Data about the optional board installed in the selected slot is displayed.
MODEL NAME: Model name of that optional board
SERIAL NO: Serial number of that circuit board

G Adjusting the Position, Size and Geometry of the Picture — ALIGNMENT Menu

Overview

The ALIGNMENT menu is used for adjusting the position, size and geometry of the picture.

Structure of the ALIGNMENT Menu



Setting Lists of the ALIGNMENT Menu

This section explains the setting lists displayed in the menu.

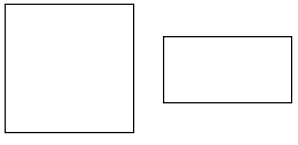
How to read the setting lists

- For purposes of explanation, each setting list is preceded by a menu number. These numbers are not displayed on the screen.
  For more information about the menu number, see "About menu numbers" on page 26(E).

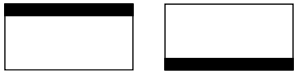
G Adjusting the Position, Size and Geometry of the Picture — ALIGNMENT Menu

G ALIGNMENT menu
Adjust the position, size or geometry of the picture with the UP and DOWN buttons or PHASE knob.

V SIZE: Adjust the height of the picture.

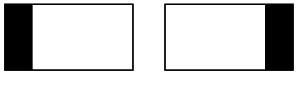


V CENTER: Adjust the vertical picture position.

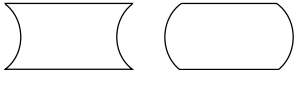


H SIZE: Adjust the width of the picture.

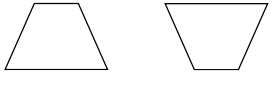
H PHASE: Adjust the horizontal picture position.



H PIN: Correct side pincushion distortion.



H KEY: Correct trapezoid distortion.



(continued)

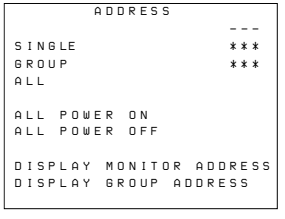
Selecting the Monitor to Control — ADDRESS Menu

Overview

When multiple monitors are connected by a serial remote connection, the ADDRESS menu is used to choose whether one particular monitor or monitor group will be controlled, or whether operations are to be performed on all monitors together.

Displaying the ADDRESS Menu

Press the ADDRESS button.
The ADDRESS menu is displayed on the screen.
By pressing the ENTER or Ent button after selecting the item, serial remote operation becomes activated.



ADDRESS Menu

Settings made with the menu items are as follows:

Item	Function
SINGLE	Controls only a specified monitor. Enter the monitor address number.
GROUP	Controls only a specified monitor group. Enter the group address number.
ALL	Controls all monitors.
ALL POWER ON	Turns all connected monitors on.
ALL POWER OFF	Turns all connected monitors off.
DISPLAY MONITOR ADDRESS	When this item is selected, each connected monitor displays its monitor address on its screen.
DISPLAY GROUP ADDRESS	When this item is selected, each connected monitor displays its group address on its screen.

Notes

- To remotely control monitors connected in serial, MONITOR ADDRESS or GROUP ADDRESS of monitors should be correctly set in the REMOTE menu.
  For details of the REMOTE menu, see "D Assigning the Remote Control Functions – REMOTE Menu" on page 37(E).
  - In GROUP or ALL mode, the LEDs of the function buttons will not light with controlled from the menu. (LEDs light only when you press the function button.)
  - In GROUP or ALL mode, LEDs of controlled monitor will light as follows.
- **In case of SHIFT OFF before remote control operation:** LEDs light in green when the SHIFT button is remotely set to OFF.
  For details, see "SHIFT button" on page10(E) for BVM-D9H5U/D9H5E/D9H5A or on page 19(E) for BVM-D14H5U/D14H5E/D14H5A.
- **In case of SHIFT ON before remote control operation:** LEDs light in amber when the SHIFT button is remotely set to ON.
  For details, see "SHIFT button" on page11(E) for BVM-D9H5U/D9H5E/D9H5A or on page 20(E) for BVM-D14H5U/D14H5E/D14H5A.

Cancelling the Remote Control Mode

To cancel the remote control mode, press the ADDRESS button.

Exiting the ADDRESS Menu

To exit the ADDRESS menu, press the ADDRESS button or the MENU button.

Short-cut Function in the ADDRESS Menu

When selecting the monitor, short-cut function will enable to select the target monitor without using the items in the ADDRESS menu. The operation procedure is as follows.

To select the monitor in the SINGLE mode

1 Press the ADDRESS button.

2 Press the address number of the target monitor.
Press one digit address number on the numeric keypad when it is from 1 to 9.
Press three digits address number (press 0 button and then press the two-digit address number) when it is from 10 to 99.

To select the monitors in the GROUP mode

1 Press the ADDRESS button.

2 Press the F1 button.

3 Press the group number of the target monitor.
Press one digit group address number when it is from 1 to 9.
Press three digits group address number (press 0 button and then press the two-digit group number) when it is from 10 to 99.

To select all the monitors in the ALL mode

1 Press the ADDRESS button.

2 Press the F2 button.

Specifications

General

System 15.625 kHz – 45 kHz
(For details, see "Available Signal Format" on page 53(E).)

CRT

BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A

HR Trinitron, 4:3 aspect ratio
Aperture grille pitch: 0.25 mm
90 degree deflection, 21.6 mm diameter in-line gun
Effective picture size with 16:9 aspect ratio:
155.4 × 87.4 mm (6 1/8 × 3 1/2 inches) (w/h)
178 mm (7 inches) (diagonal size)
Effective picture size with 4:3 aspect ratio:
155.4 × 115 mm (6 1/8 × 4 5/8 inches) (w/h)
190.7 mm (7 1/2 inches) (diagonal size)
CRT protection: EHT (extremely high tension) protection type
Warm-up time: approx. 30 minutes
Anode voltage: 15 kV with no beam current

BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A

HR Trinitron, 4:3 aspect ratio
Aperture grille pitch: 0.25 mm
90 degree deflection, 29.4 mm diameter in-line gun
Effective picture size with 16:9 aspect ratio:
267.5 × 150.5 mm (10 5/8 × 6 inches) (w/h)
306.9 mm (12 1/8 inches) (diagonal size)
Effective picture size with 4:3 aspect ratio:
267.5 × 200.6 mm (10 5/8 × 8 inches) (w/h)
331.6 mm (13 1/8 inches) (diagonal size)
CRT protection: EHT (extremely high tension) protection type
Warm-up time: approx. 30 minutes
Anode voltage: 23 kV with no beam current

Nominal chromaticity coordinates:

EBU phosphor

	x	y
R	0.640	0.330
G	0.290	0.600
B	0.150	0.060

Dimensions (w/h/d)

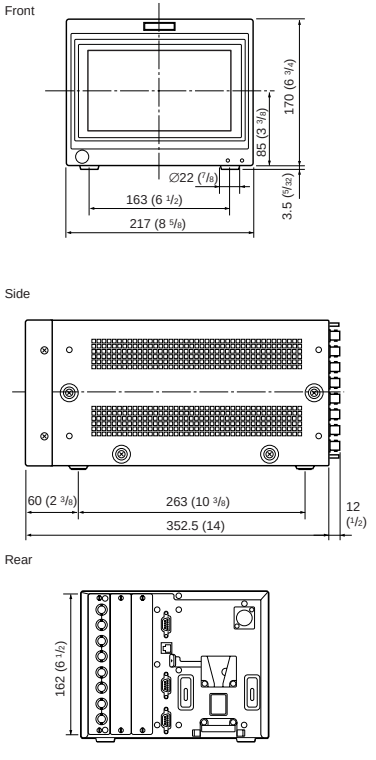
BVM-D9H1U/D9H1E/D9H1A:
approx. 217 × 174 × 364.5mm (8 5/8 × 6 7/8 × 14 3/8 inches)
when the AC adaptor is installed:
approx. 217 × 174 × 419.5mm (8 5/8 × 6 7/8 × 16 5/8 inches)
BVM-D9H5U/D9H5E/D9H5A:
approx. 217 × 218 × 364.5mm (8 5/8 × 8 5/8 × 14 3/8 inches)
when the AC adaptor is installed:
approx. 217 × 218 × 419.5mm (8 5/8 × 8 5/8 × 16 5/8 inches)
BVM-D14H1U/D14H1E/D14H1A:
approx. 346 × 280 × 519mm (13 5/8 × 11 1/8 × 20 1/2 inches)
BVM-D14H5U/D14H5E/D14H5A:
approx. 482 × 280 × 519mm (19 × 11 1/8 × 20 1/2 inches)

Specifications

Dimensional drawing

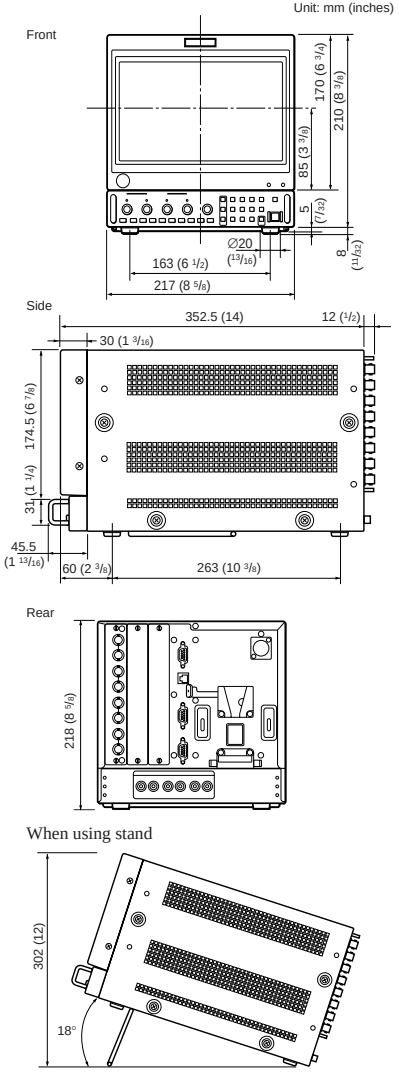
BVM-D9H1U/D9H1E/D9H1A

Unit: mm (inches)



BVM-D9H5U/D9H5E/D9H5A

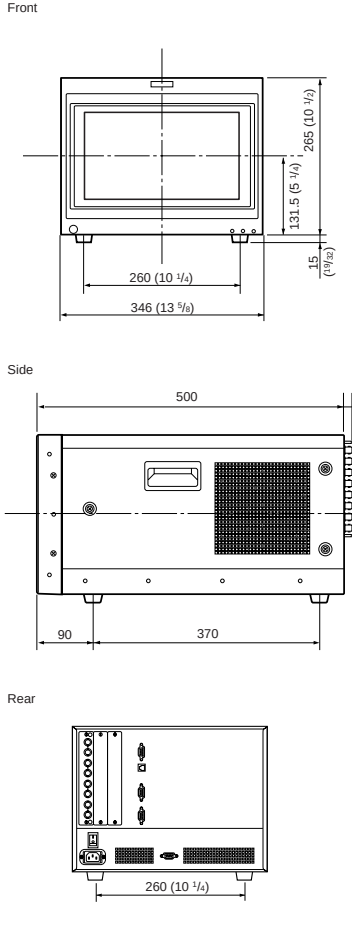
Unit: mm (inches)



When using stand

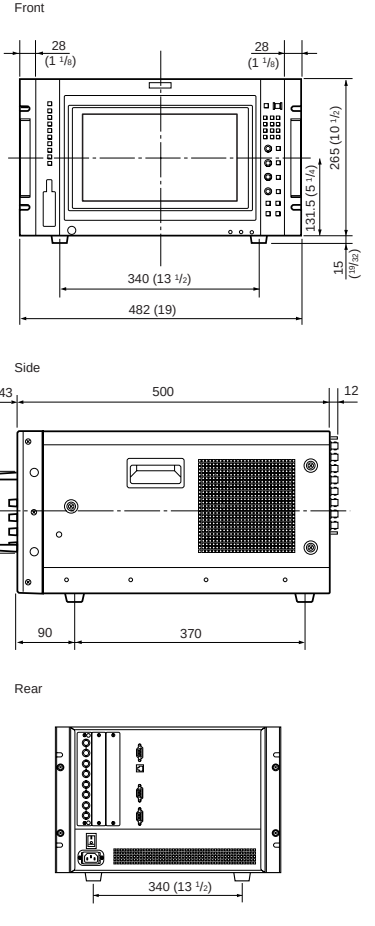
BVM-D14H1U/D14H1E/D14H1A

Unit: mm (inches)



BVM-D14H5U/D14H5E/D14H5A

Unit: mm (inches)



Specifications

Mass
BVM-D9H1U/D9H1E/D9H1A:
approx. 8.1 kg (17 lb 14 oz)
when the AC adaptor is installed:
approx. 8.9 kg (19 lb 10 oz)
BVM-D9H5U/D9H5E/D9H5A:
approx. 9.3 kg (20 lb 8 oz)
when the AC adaptor is installed:
approx. 10.1 kg (22 lb 4 oz)
BVM-D14H1U/D14H1E/D14H1A:
approx. 21 kg (46 lb 5 oz)
BVM-D14H5U/D14H5E/D14H5A:
approx. 23 kg (50 lb 11 oz)

Power consumption
BVM-D9H1U/D9H1E/D9H1A/
D9H5U/D9H5E/D9H5A:
85 W max. (an optional BKM-142HD or BKM-120D is installed)
60 W typical (the supplied analog component input adaptor is installed)
BVM-D14H1U/D14H1E/D14H1A/
D14H5U/D14H5E/D14H5A:
115 W max. (an optional BKM-142HD or BKM-120D is installed)
100 W typical (the supplied analog component input adaptor is installed)

Peak inrush current
(1) Power ON, current probe method: 80 A (240 V) (BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A),
45 A (240 V) (BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A)
(2) Hot switching inrush current, measured in accordance with European standard EN55103-1: 10 A (230 V) (BVM-D9H1U/D9H1E/D9H1A/D9H5U/D9H5E/D9H5A),
20 A (230 V) (BVM-D14H1U/D14H1E/D14H1A/D14H5U/D14H5E/D14H5A)

Power requirements
BVM-D9H1U/D9H1E/D9H1A/
D9H5U/D9H5E/D9H5A:
AC 100 to 240 V, 50/60 Hz, DC $12V^{+5}_{-1}$ V
BVM-D14H1U/D14H1E/D14H1A/
D14H5U/D14H5E/D14H5A:
AC 100 to 240 V, 50/60 Hz

Input/output connectors

Video input/output
BNC type × 3 (with loop-through outputs, 75-ohm automatic termination)
R/G/B: 1 Vp-p ±6 dB, positive, high impedance
Y: 1 Vp-p ±6 dB, high impedance
P_B/P_R: 0.7 Vp-p ±6 dB, high impedance

Sync input/output
BNC type × 1 (with loop-through output, 75-ohm automatic termination)
Composite sync: 0.3 to 8 Vp-p, positive/negative tri-level sync signal input or negative bi-level sync signal input, high impedance

Return loss
More than 40 dB (10 MHz, with 75-ohm termination)

Remote control
OPTION: Mini-DIN 8-pin × 1
CONTROL UNIT:
D-sub 9-pin × 1 (BVM-D9H1U/D9H1E/D9H1A[1], BVM-D14H1U/D14H1E/D14H1A only)
PARALLEL REMOTE 1:
D-sub 9-pin × 1
PARALLEL REMOTE 2:
Modular connector 6-pin
SERIAL REMOTE: D-sub 9-pin × 2[1] (with loop-through output)

Audio input (BVM-D9H5U/D9H5E/D9H5A only)
Phono jack × 3 (with loop-through output)

1) BVM-D9H1U/D9H1E/D9H1A is swithced to REMOTE or CTRL UNIT with the select switch.

Video signal

Frequency response
575/50I, 480/60I component inputs
BVM-D9H1U/D9H1E/D9H1A/
D9H5U/D9H5E/D9H5A/
D14H1U/D14H1E/D14H1A/
D14H5U/D14H5E/D14H5A:
50Hz to 10MHz (0 dB/–3 dB)
Models other than the above or RGB inputs
BVM-D9H1U/D9H1E/D9H1A/
D9H5U/D9H5E/D9H5A:
48 Hz to 17 MHz, (1 dB/ –3 dB)
BVM-D14H1U/D14H1E/
D14H1A/D14H5U/D14H5E/
D14H5A:
48 Hz to 24 MHz, (0 dB/ –3 dB)

Aperture compensation[2]
OFF: 0 dB
ON: 2 dB to 6 dB
575/50I, 480/60I inputs: 5 MHz
Input other than the above: 16 MHz

Picture performance

Normal scan
5% overscan of CRT effective screen area (adjustable range greater than ±15%)

Underscan
3% underscan of CRT effective screen area (adjustable range greater than ±15%)

Linearity
Within a central area bounded by a circle with a diameter equal to the picture height, less than 1.0 % of the picture height, and outside the same area, about 2.0 % of the picture height

Color temperature
D93, D65 (adjustable to other color temperatures)

Convergence error
Within a central area bounded by a circle with a diameter equal to the picture height.
Less than 0.4 mm with a central area bounded by a circle and less than 0.7 mm at any other point.

Standard luminescence
120 cd/m² (at standard 1 Vp-p 100% white signal)

Raster size stability
Less than 1% of picture height (at 120 cd/m² peak luminescence, 10 to 90% APL)

Resolution (at screen center, 120 cd/m² luminescence)
BVM-D9H1U/D9H1E/D9H1A/
D9H5U/D9H5E/D9H5A:
340 TV lines (16:9)
450 TV lines (4:3)
BVM-D14H1U/D14H1E/D14H1A/
D14H5U/D14H5E/D14H5A:
600 TV lines (16:9)
800 TV lines (4:3)

Operating conditions

Temperature	0°C to 35°C (32°F to 95°F)
Optimum temperature	20°C to 30°C (68°F to 86°F)
Humidity	0% to 90% (no condensation)
Pressure	700 hPa to 1060 hPa

Storage and transport conditions

Temperature	–10°C to 40°C (14°F to 104°F)
Humidity	0% to 90%
Pressure	700 hPa to 1060 hPa

2) The aperture cannot be compensated for RGB input signals.

Specifications

Accessories supplied

AC power cord (1)
AC adaptor (1) (BVM-D9H1U/D9H1E/D9H1A/
D9H5U/D9H5E/D9H5A only)
AC plug holder (1)
Tally plate (1)
4:3 mask (1)
Operation manual (1)

Acquired safety regulations

UL1950, CSA950
FCC Class A, IC Class A
DHHS, DNHW
TÜV (EN60950), PTB
CE-Marking, C-tick Mark

Design and specifications are subject to change without notice.

Available Signal Format

System	Total lines per frame	Active lines per frame	** Frame rate (Hz)	Scanning format	Aspect	Standard
575/50I (*PAL)	625	575	25	2:1 interlace	16:9/4:3	ITU 601
480/60I (*NTSC)	525	483	30	2:1 interlace	16:9/4:3	ITU 601
575/50P	625	575	50	Progressive	16:9/4:3	–
480/60P	525	483	60	Progressive	16:9/4:3	SMPTE 293M
1080/48I	1125	1080	24	2:1 interlace	16:9	–
1080/50I	1125	1080	25	2:1 interlace	16:9	SMPTE 294M
1035/60I	1125	1035	30	2:1 interlace	16:9	BTA S-001B
1080/60I	1125	1080	30	2:1 interlace	16:9	SMPTE 274M/BTA S-001B
720/60P	750	720	60	Progressive	16:9	SMPTE 296M

* Available when the optional adaptor is installed.
** Also compatible with $^{1}/_{1.001}$.

Connection Cable Specifications for Color Temperature Probes

Special cables are required to connect color temperature probes other than the Sony BKM-14L to the monitor.

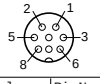
The following diagrams show specifications and pin assignments for the required cables.

Connection cable for GRASEBY SLS 9400 probe

Modular connector

Signal	Pin Number
N.C.	1
GND	2
RXD	3
TXD	4
GND	5
N.C.	6

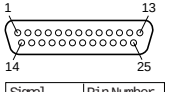
Mini DIN 8-pin connector (male)



Signal	Pin Number
1	NC
2	NC
3	RTS
4	GND
5	N.C.
6	TXD
7	+5V
8	RXD

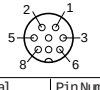
Connection cable for MINOLTA CA-100 probe

D-sub 25-pin connector (male)



Signal	Pin Number
N.C.	1
TXD	2
RXD	3
RTS	4
CTS	5
N.C.	6
GND	7
N.C.	8 to 25

Mini DIN 8-pin connector (male)



Signal	Pin Number
1	NC
2	NC
3	RTS
4	GND
5	N.C.
6	TXD
7	+5V
8	RXD

Connection cable for PHILIPS PM 5639 probe (corresponds to PHILIPS PM 5639/64 cable)

Modular connector

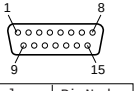
Signal	Pin Number
+5V	1
N.C.	2
RXD	3
TXD	4
N.C.	5
GND	6

Mini DIN 8-pin connector (male)

Signal	Pin Number
1	NC
2	NC
3	RTS
4	GND
5	N.C.
6	TXD
7	+5V
8	RXD

Connection cable for THOMA TF6 probe

D-sub 15-pin connector (female)



Signal	Pin Number
N.C.	1
RXD	2
TXD	3
N.C.	4
N.C.	5
N.C.	6
GND	7
N.C.	8 to 15

Mini DIN 8-pin connector (male)

Signal	Pin Number
1	NC
2	NC
3	RTS
4	GND
5	N.C.
6	TXD
7	+5V
8	RXD

Menu Index

The menu index shows the menu items provided with this monitor in alphabetical order. For you reference, each menu item is followed by the page of this manual on which the item is explained, its menu number, and the Main Menu that the item belongs to.

Menu Item		Page	Menu number	Main menu
A	ACC SW	41(E)	–	SYSTEM CONFIG menu
	ADDRESS	45(E)	–	ADDRESS menu
	ADJUST	34(E)	–	COLOR TEMP ADJ menu
	ALIGNMENT	44(E)	G	ALIGNMENT menu
	APERTURE VALUE	36(E)	–	INPUT CONFIG menu
	AUDIO INPUT	36(E)	–	INPUT CONFIG menu
	AUTO	32(E)	A2	CONTROL PRESET ADJ menu
B	BRIGHT	32(E)	–	CONTROL PRESET ADJ menu
C	CAM	36(E)	–	INPUT CONFIG menu
	CAPTION	41(E)	E5	SYSTEM CONFIG menu
	CH	38(E)	D211	REMOTE menu
		40(E)	–	SYSTEM CONFIG menu
	CH NAME	41(E)	E4	SYSTEM CONFIG menu
	CH NO	41(E)	E3	SYSTEM CONFIG menu
	CHANNEL NAME	36(E)	C2	INPUT CONFIG menu
	CHROMA	32(E)	–	CONTROL PRESET ADJ menu
	COL TEMP SHORT-CUT	41(E)	–	SYSTEM CONFIG menu
	COL1	34(E)	–	COLOR TEMP ADJ menu
	COL2	34(E)	–	COLOR TEMP ADJ menu
	COLOR TEMP	36(E)	–	INPUT CONFIG menu
	COLOR TEMP ADJ	33(E)	B	COLOR TEMP ADJ menu
	CONFIG COPY	41(E)	E1	SYSTEM CONFIG menu
	CONT/BRT HOLD	41(E)	–	SYSTEM CONFIG menu
	CONTRAST	32(E)	–	CONTROL PRESET ADJ menu
	CONTROL PRESET ADJ	31(E)	A	CONTROL PRESET ADJ menu
	COPY	34(E)	B3	COLOR TEMP ADJ menu
D	D1-SDI	36(E)	–	INPUT CONFIG menu
	D65	34(E)	–	COLOR TEMP ADJ menu
	D93	34(E)	–	COLOR TEMP ADJ menu
	DEFAULT CH	40(E)	–	SYSTEM CONFIG menu
	DEGAUSS DELAY	40(E)	–	SYSTEM CONFIG menu
E	EDIT	36(E)	–	INPUT CONFIG menu
	EIA COLOR BAR	32(E)	–	CONTROL PRESET ADJ menu
	ENTER PASSWORD	40(E)	–	SYSTEM CONFIG menu
	EXT SYNC SLOT	36(E)	–	INPUT CONFIG menu
F	FORMAT	36(E)	C1	INPUT CONFIG menu
	FORMAT DISPLAY	41(E)	E2	SYSTEM CONFIG menu
	FULL FIELD WHITE 100 %	31(E)	–	CONTROL PRESET ADJ menu
G	GROUP ADDRESS	38(E)	–	REMOTE menu
H	H KEY	44(E)	–	ALIGNMENT menu
	H SIZE	44(E)	–	ALIGNMENT menu
	H PHASE	36(E)	–	INPUT CONFIG menu
		44(E)	–	ALIGNMENT menu
	H PIN	44(E)	–	ALIGNMENT menu
	HD-SDI	36(E)	–	INPUT CONFIG menu
	HIGH LIGHT	34(E)	–	COLOR TEMP ADJ menu
I	INPUT CONFIG	35(E)	C	INPUT CONFIG menu
	INPUT NO	36(E)	–	INPUT CONFIG menu
L	LAST	40(E)	–	SYSTEM CONFIG menu
	LOAD REF VALUE	34(E)	B21	COLOR TEMP ADJ menu
	LOW LIGHT	34(E)	–	COLOR TEMP ADJ menu
M	MAINTENANCE	40(E)	E5	SYSTEM CONFIG menu
	MANUAL	32(E)	A1	CONTROL PRESET ADJ menu
		34(E)	B1	COLOR TEMP ADJ menu
	MARKER PHASE	36(E)	–	INPUT CONFIG menu
	MARKER WIDTH	36(E)	–	INPUT CONFIG menu
	MODEL NAME	42(E)	–	STATUS menu
	MONITOR ADDRESS	38(E)	–	REMOTE menu
		41(E)	E11	SYSTEM CONFIG menu
N	NEW NAME	36(E)	–	INPUT CONFIG menu
	NTSC, PAL	36(E)	–	INPUT CONFIG menu
	NTSC SET UP	36(E)	–	INPUT CONFIG menu
P	PARALLEL REMOTE	38(E)	–	REMOTE menu
	PARALLEL REMOTE CONFIG	38(E)	D2	REMOTE menu
	PHASE	32(E)	–	CONTROL PRESET ADJ menu
	POSITION	41(E)	–	SYSTEM CONFIG menu
	PROBE	34(E)	–	COLOR TEMP ADJ menu
	PROG	36(E)	–	INPUT CONFIG menu
R	REMOTE	37(E)	D	REMOTE menu
	RGB	35(E)	–	INPUT CONFIG menu
	R OFF	38(E)	D211	REMOTE menu
S	SERIAL NO	42(E)	–	STATUS menu
	SERIAL REMOTE	38(E)	D1	REMOTE menu
	SLOT 1	42(E)	F3	STATUS menu
	SLOT NO	36(E)	–	INPUT CONFIG menu
	SMPTE COLOR BAR	32(E)	–	CONTROL PRESET ADJ menu
	STANDBY MODE	40(E)	–	SYSTEM CONFIG menu
	START	34(E)	–	COLOR TEMP ADJ menu
	STATUS	42(E)	F	STATUS menu
	STD	34(E)	–	COLOR TEMP ADJ menu
	SYSTEM CONFIG	39(E)	E	SYSTEM CONFIG menu
V	V CENTER	44(E)	–	ALIGNMENT menu
	V SIZE	44(E)	–	ALIGNMENT menu
	VTR	36(E)	–	INPUT CONFIG menu
X	X	34(E)	–	COLOR TEMP ADJ menu
Y	Y	34(E)	–	COLOR TEMP ADJ menu
	YPBPR	36(E)	–	INPUT CONFIG menu
	YPBPR MATRIX	36(E)	–	INPUT CONFIG menu
1	1125/60I SYSTEM	36(E)	–	INPUT CONFIG menu
	1 PIN	38(E)	D21	REMOTE menu
2	2 PIN	38(E)	–	REMOTE menu
3	3 PIN	38(E)	–	REMOTE menu
4	4 PIN	38(E)	–	REMOTE menu
5	5 PIN	38(E)	–	REMOTE menu
6	6 PIN	38(E)	–	REMOTE menu
7	7 PIN	38(E)	–	REMOTE menu
8	8COLOR BAR 100%	32(E)	–	CONTROL PRESET ADJ menu
	8COLOR BAR 75%	32(E)	–	CONTROL PRESET ADJ menu
	8 PIN	38(E)	–	REMOTE menu

Menu Configuration